Digifort Release Notes

Version 7.0.0.0

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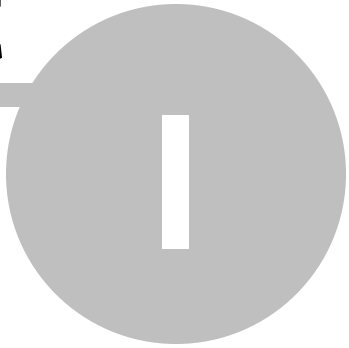
Part



1 Description

This file contains the history of all changes made to the system. Changes here shown are valid for the Enterprise edition that has all the features. Professional, Standard and Explorer editions may not have certain items described in this file.

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Part

2 Version 7.0.0.0

Release date: January 7, 2015

2.1 New features and improvements

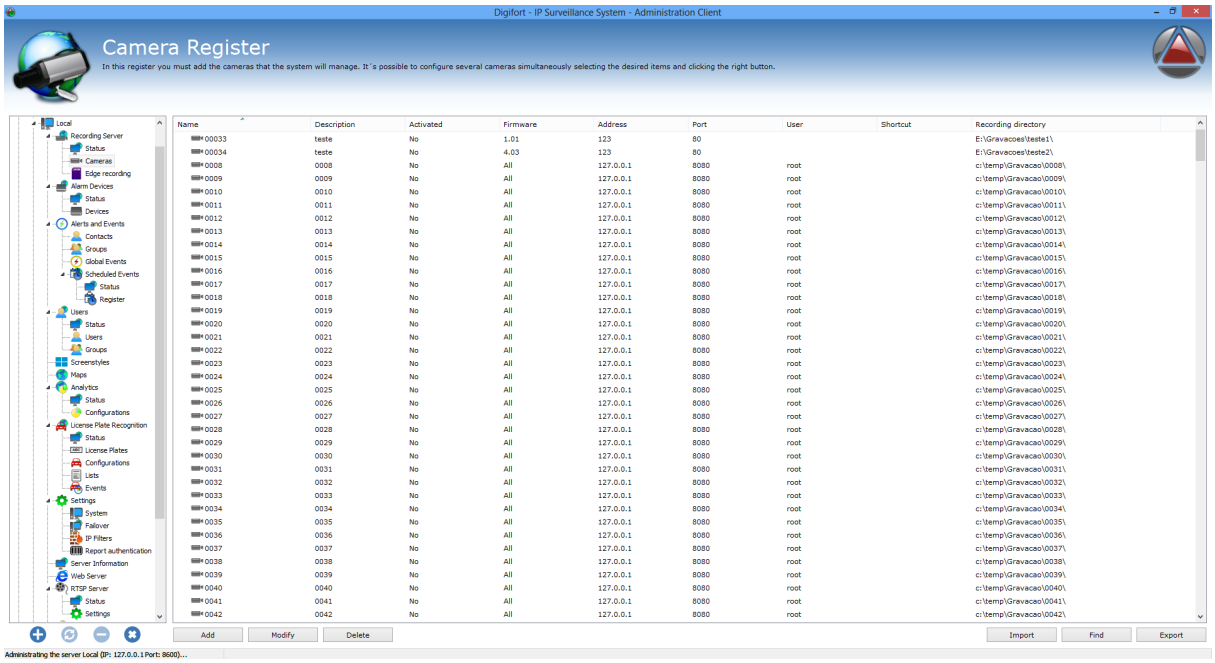
This section contains information about the new system features and improvements.

2.1.1 New interface

The administration and surveillance client interfaces has been improved with a more clean and modern design.

2.1.1.1 Administration Client

The administration client interface was completely redesigned, with a modern look, new icons for the while system and new organization of items in the resource tree:


Digifort - IP Surveillance System - Administration Client
Camera Register
In this register you must add the cameras that the system will manage. It´s possible to configure several cameras simultaneously selecting the desired items and clicking the right button.
Add
Modify
Delete
Import
Find
Export

2.1.1.2 Surveillance Client

The surveillance client also received significant changes in the interface, now with a new darker skin and new icons:

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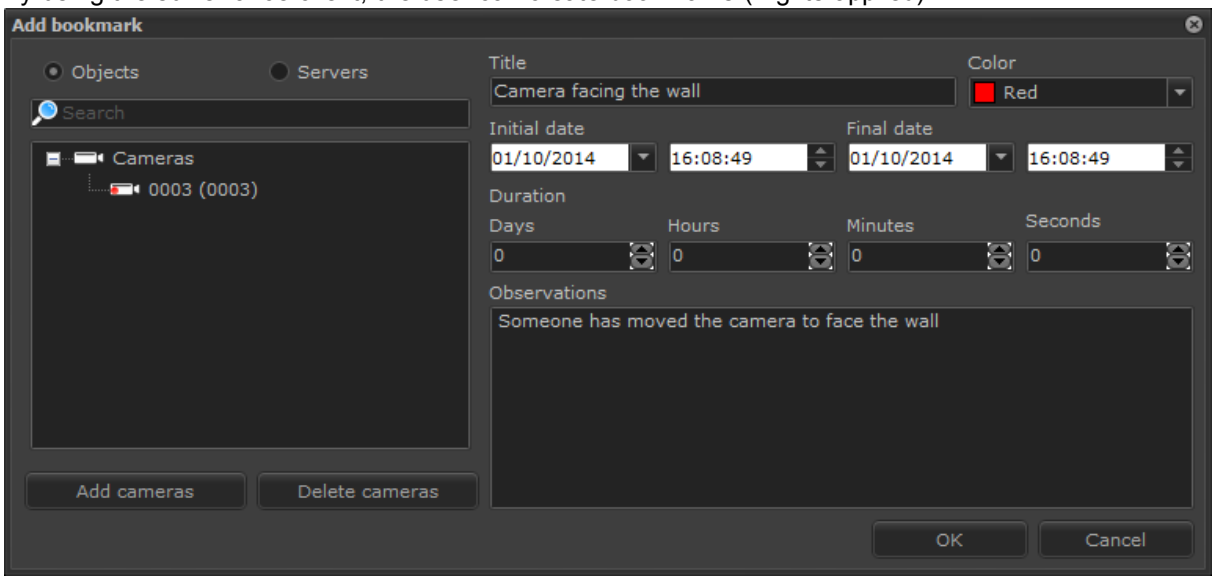
2.1.2 Bookmark

Added a new feature for video bookmark, which allows fast marking of events for later search.

By using the surveillance client, the user can create bookmarks (Rights applied):



The bookmarks can be created for many cameras simultaneously and allow the choice of a title, color, initial and final date and observations.

All the fields can be used as filters for later query, in the bookmarks search screen:

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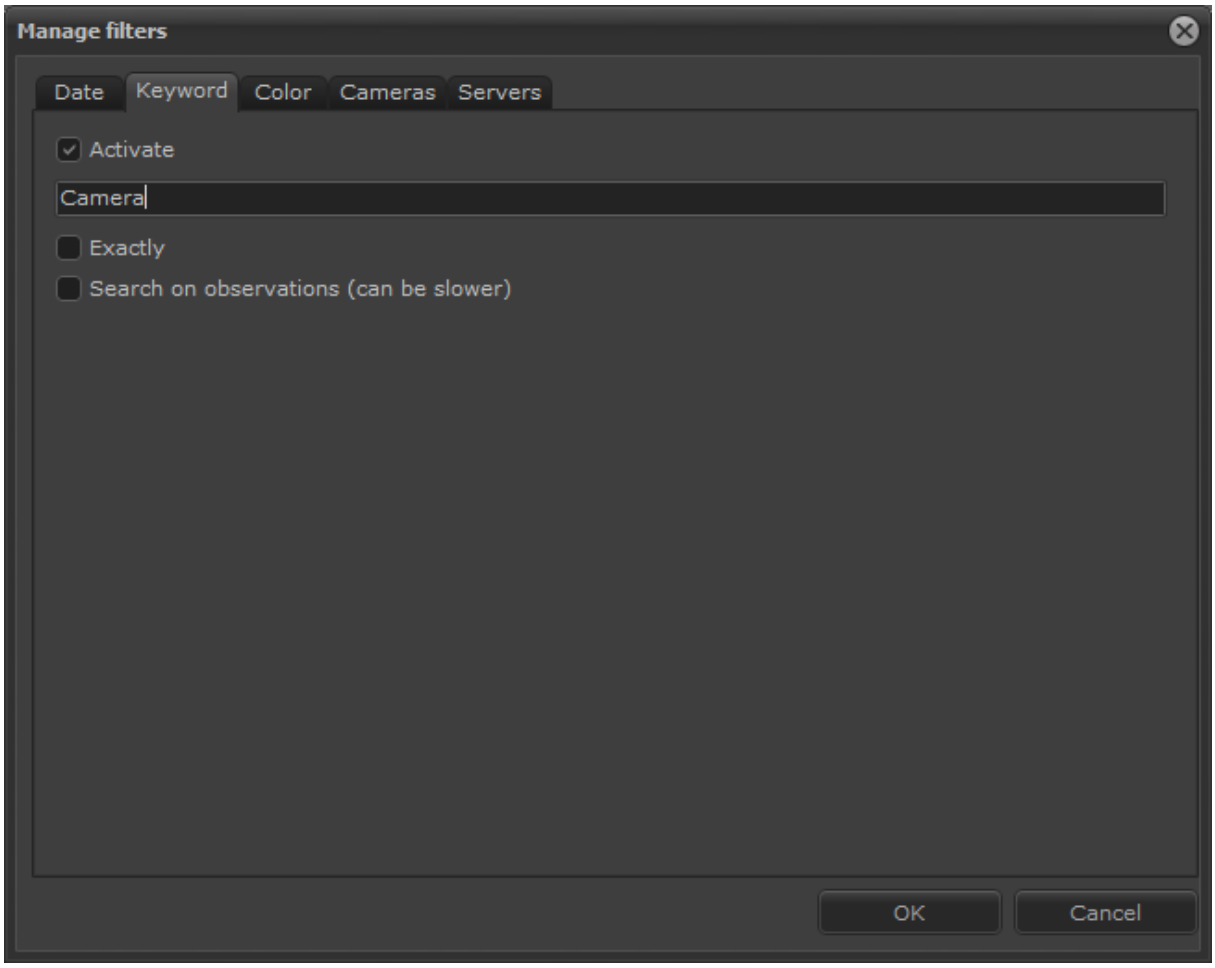
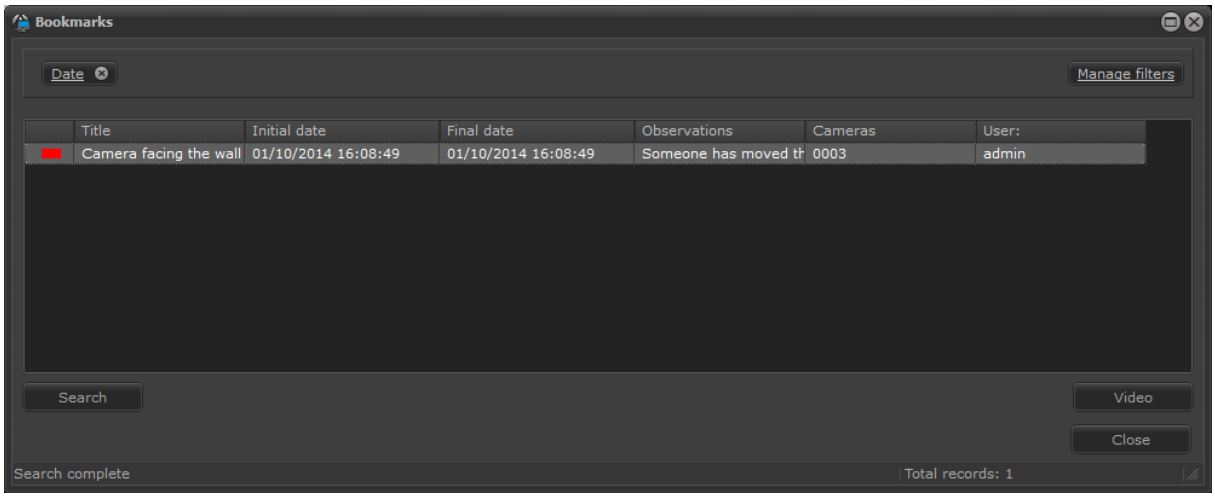


The search results will be presented in a list and the user can easily playback the bookmarked video with 1 mouse click:



During the playback, the bookmarks will be displayed in the timeline, facilitating the location of events:

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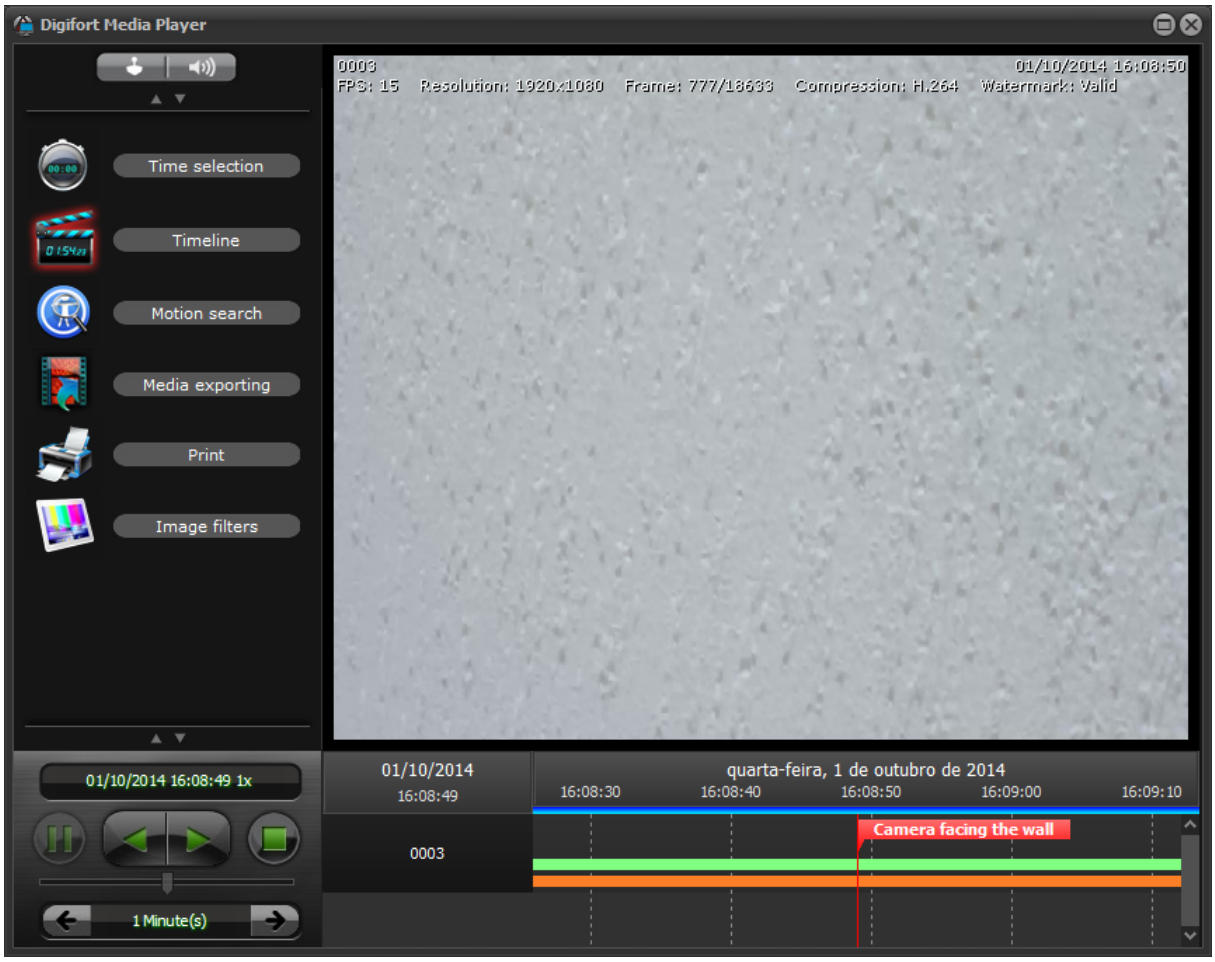

2.1.2.1 Automatic bookmark creation on recording profile change

The system now allows the automatic creation of a bookmark when the recording profile is changed (By using motion detection):

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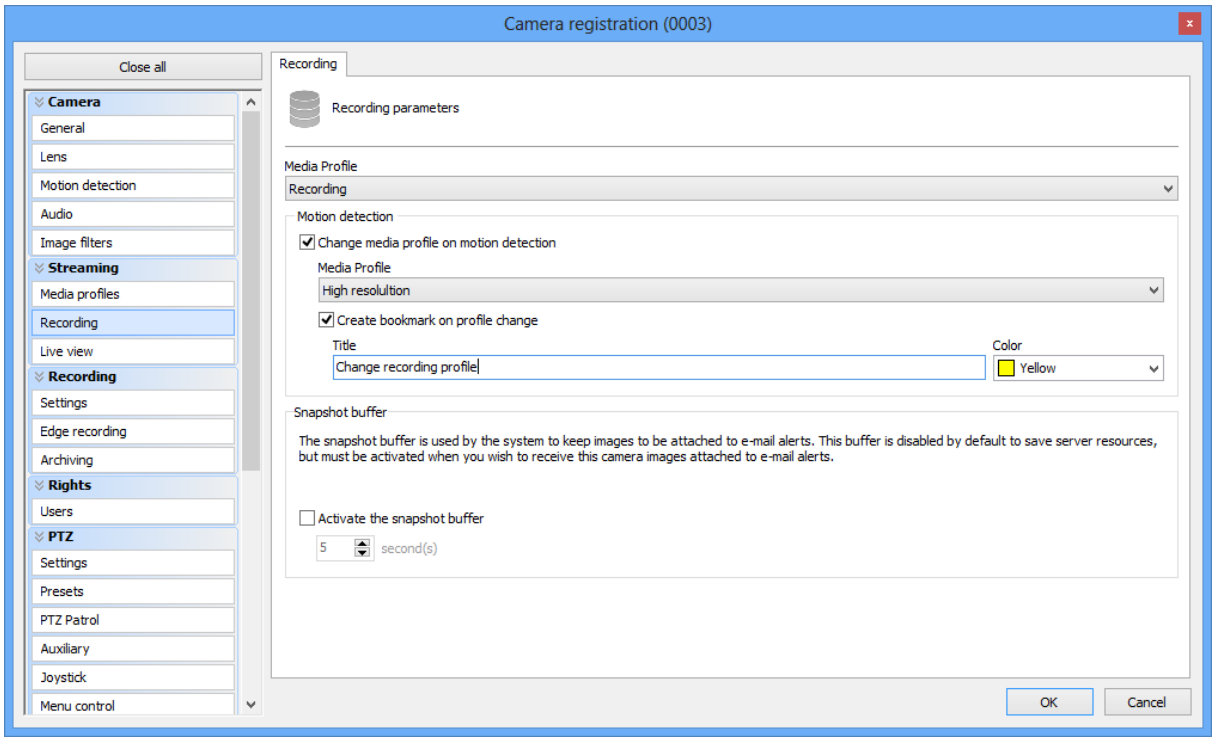

This new features opens up the possibility of the system to mark, with a video bookmark, all the moments in which the system has detected motion and has changed the profile, facilitating the event search.

2.1.2.2 Creation of bookmarks by events

A new event action was added to allow the creation of bookmarks by any type of event.

With this new options, the system can create a bookmark whenever a given event occur, easily identifying them in the recordings:

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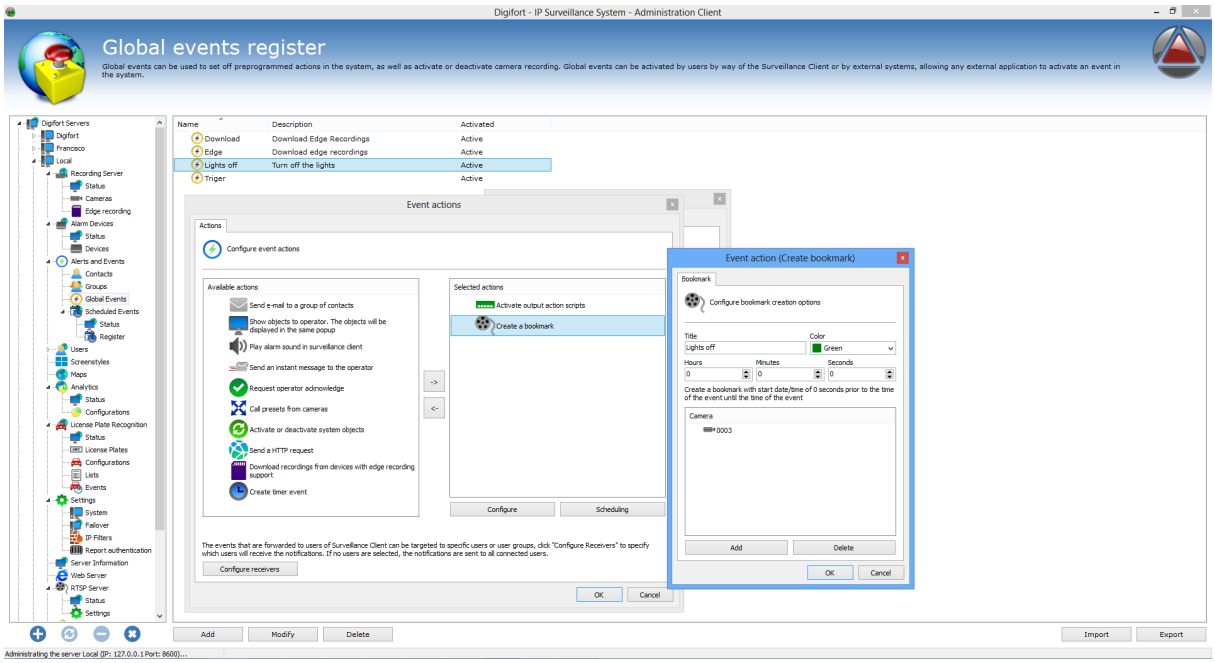
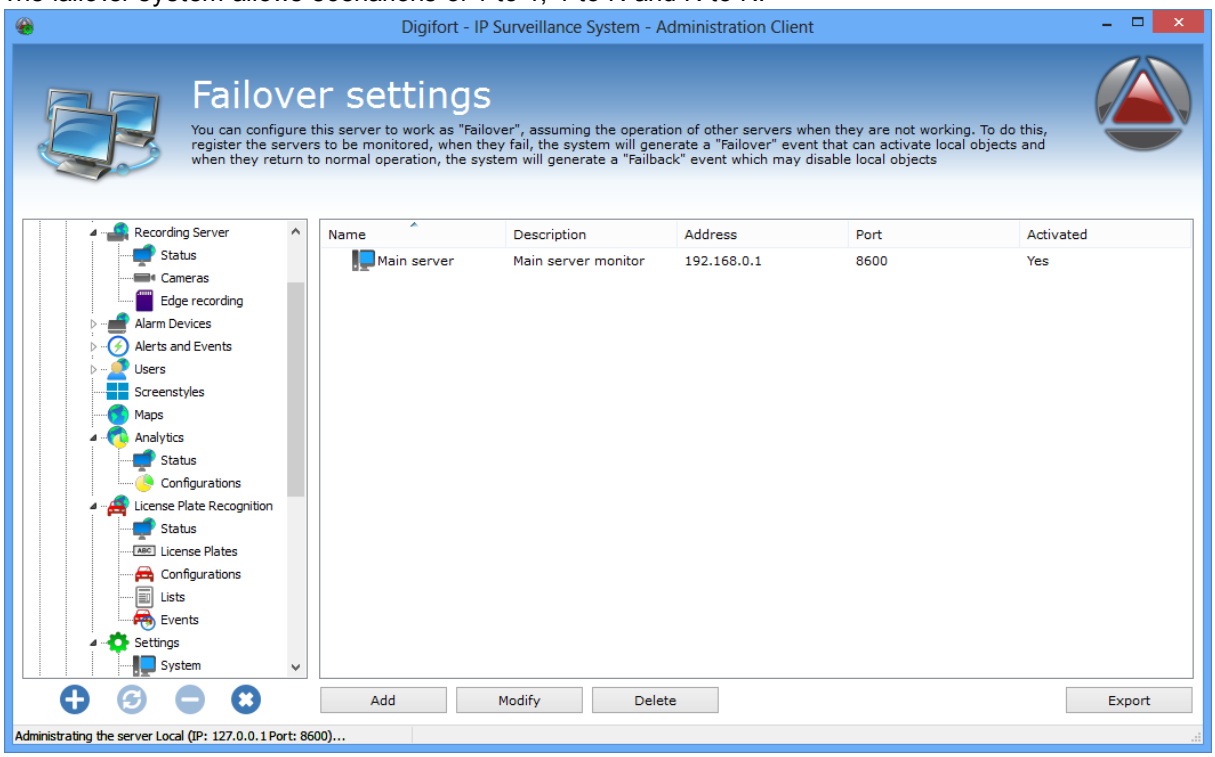


2.1.3 Failover

Added a new server failover system. With the failover system you can configure additional servers to take over the operation of other servers in case of a failure.

The failover system allows scenarions of 1 to 1, 1 to N and N to N.



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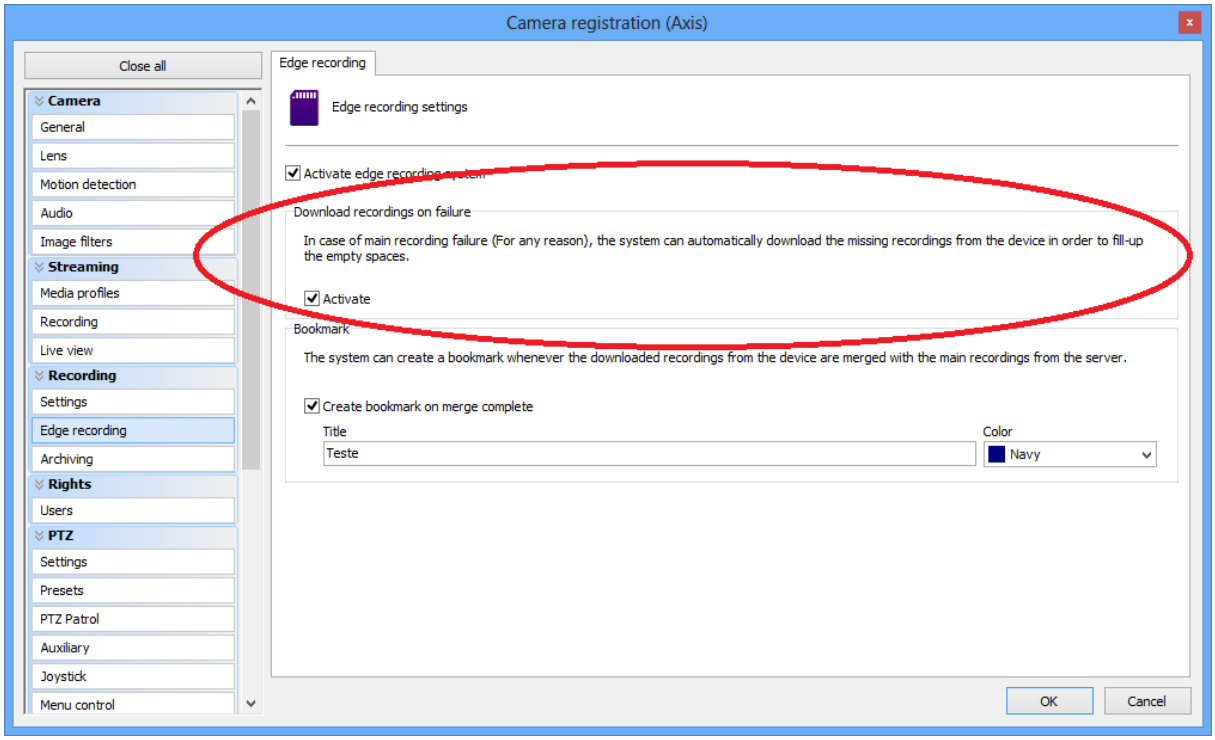
2.1.4 Edge Recording

The system now provides full support for Edge Recording.

The edge recording system implemented in Digifort allows the download and merge of recordings stored in the memory card of supported cameras.

2.1.4.1 Self-healing of recordings

With the self-healing option, the system can be configured to automatically download camera recordings in case of a system failure, filling up the recording gaps from the failure:



2.1.4.2 Download recordings by event

The edge storage system also allows downloading video on the occurrence of any system event, allowing operations such as:

- Downloading recordings using scheduled events, creating a scenario where camera recordings can be daily downloaded at a scheduled time
- Downloading recordings with different resolution on the occurrence of any event

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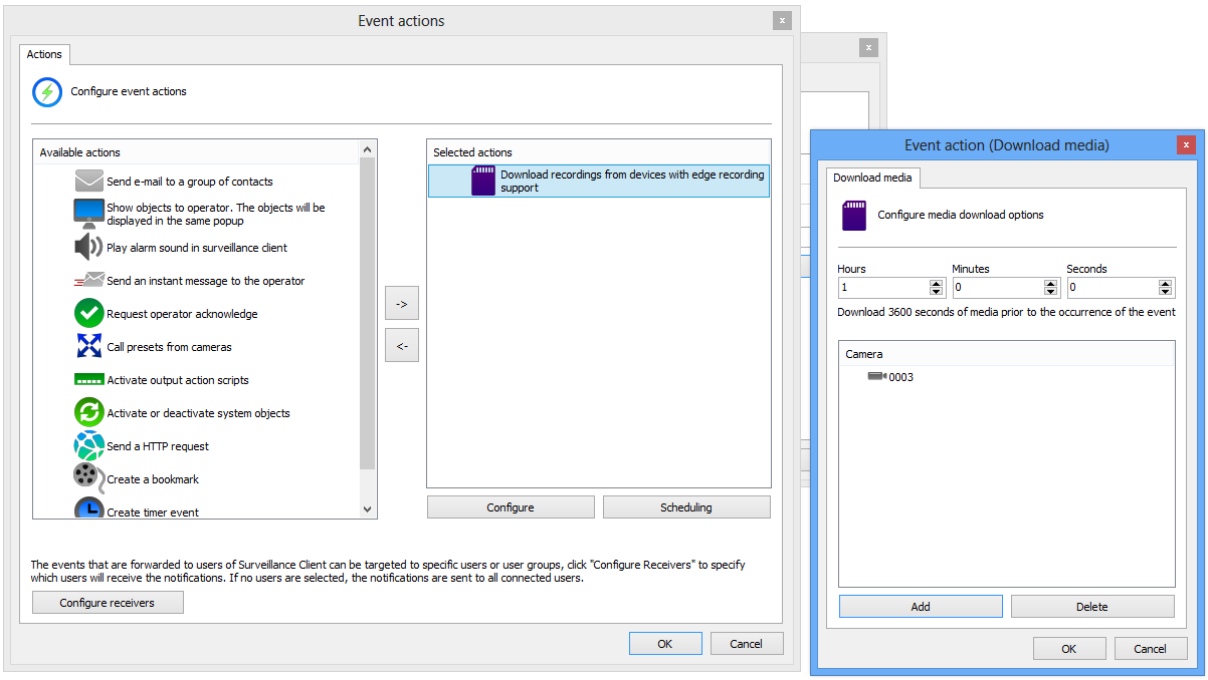
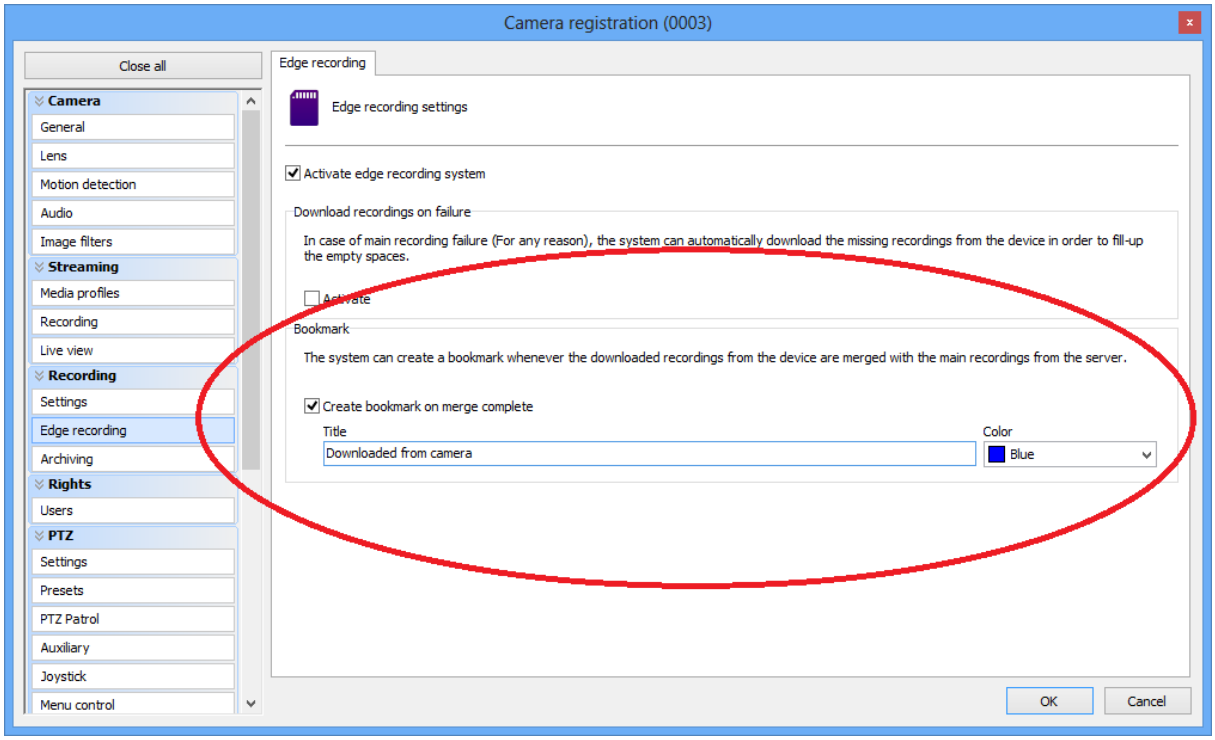

Event actions
Actions
Configure event actions
Available actions
Send e-mail to a group of contacts
Show objects to operator. The objects will be displayed in the same popup
Play alarm sound in surveillance client
Send an instant message to the operator
Request operator acknowledge
Call presets from cameras
Activate output action scripts
Activate or deactivate system objects
Send a HTTP request
Create a bookmark
Create timer event
->
<-
Selected actions
Download recordings from devices with edge recording support
Configure
Scheduling
The events that are forwarded to users of Surveillance Client can be targeted to specific users or user groups, click "Configure Receivers" to specify which users will receive the notifications. If no users are selected, the notifications are sent to all connected users.
Configure receivers
OK
Cancel
Event action (Download media)
Download media
Configure media download options
Hours
Minutes
Seconds
1
0
0
Download 3600 seconds of media prior to the occurrence of the event
Camera
0003
Add
Delete
OK
Cancel

2.1.4.3 Automatic bookmarking on merge

The edge recording system provides a unique option to automatically create a bookmark whenever the downloaded video from a camera is merged with the main recordings, allowing a clear identification in the timeline to distinguish between the main recordings and the downloaded recordings.



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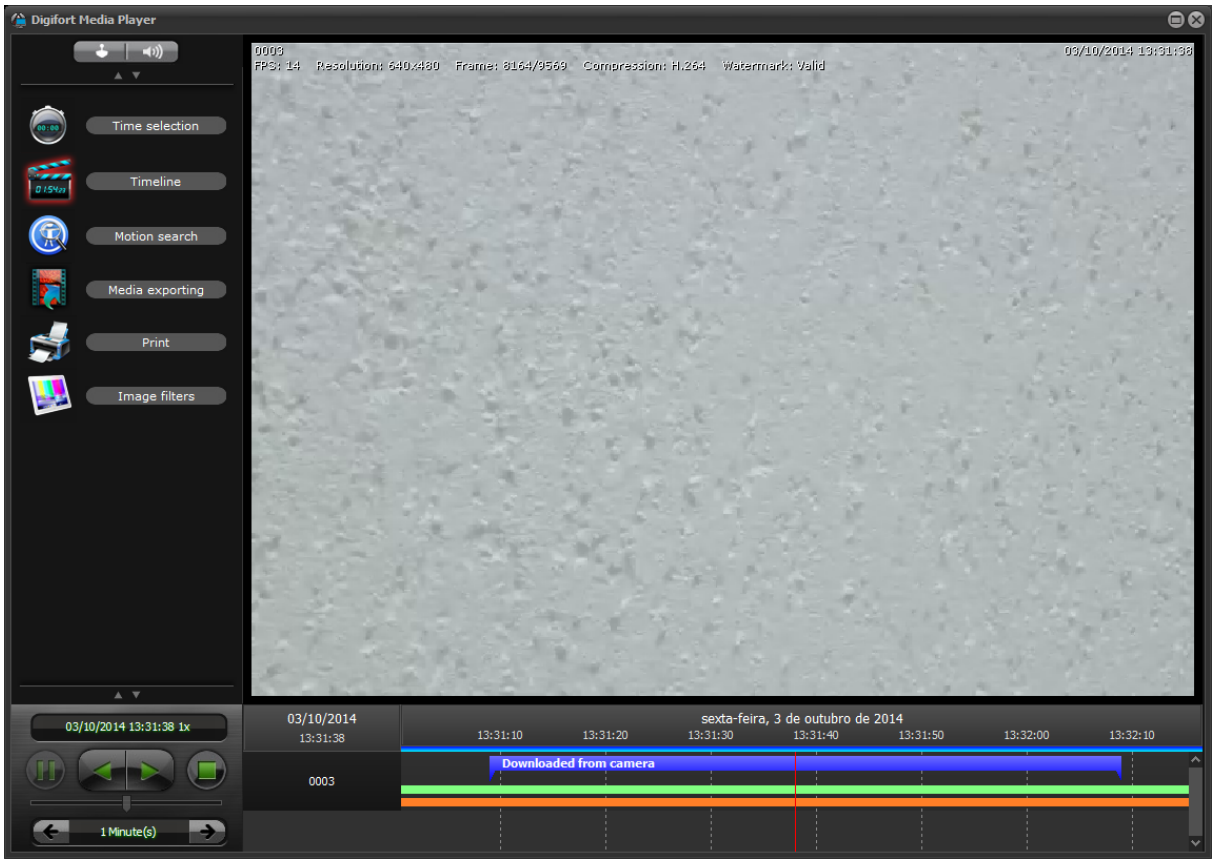
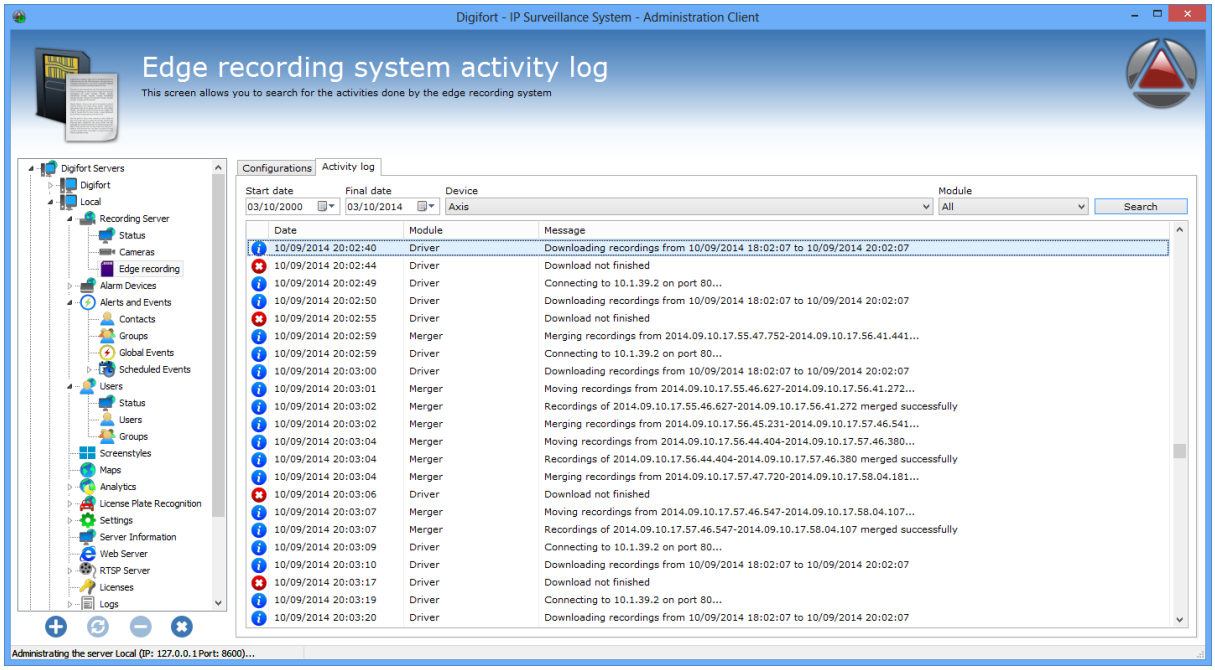


2.1.4.4 Activity log

The edge recording system also provides a complete activity log:


Digifort - IP Surveillance System - Administration Client
Edge recording system activity log
This screen allows you to search for the activities done by the edge recording system
Configurations
Activity log
Start date
Final date
Device
Module
03/10/2000
03/10/2014
Axis
All
Search
Date
Module
Message
10/09/2014 20:02:40 Driver Downloading recordings from 10/09/2014 18:02:07 to 10/09/2014 20:02:07
10/09/2014 20:02:44 Driver Download not finished
10/09/2014 20:02:49 Driver Connecting to 10.1.39.2 on port 80...
10/09/2014 20:02:50 Driver Downloading recordings from 10/09/2014 18:02:07 to 10/09/2014 20:02:07
10/09/2014 20:02:55 Driver Download not finished
10/09/2014 20:02:59 Merger Merging recordings from 2014.09.10.17.55.47.752-2014.09.10.17.56.41.441...
10/09/2014 20:02:59 Driver Connecting to 10.1.39.2 on port 80...
10/09/2014 20:03:00 Driver Downloading recordings from 10/09/2014 18:02:07 to 10/09/2014 20:02:07
10/09/2014 20:03:01 Merger Moving recordings from 2014.09.10.17.55.46.627-2014.09.10.17.56.41.272...
10/09/2014 20:03:02 Merger Recordings of 2014.09.10.17.55.46.627-2014.09.10.17.56.41.272 merged successfully
10/09/2014 20:03:02 Merger Merging recordings from 2014.09.10.17.56.45.231-2014.09.10.17.57.46.541...
10/09/2014 20:03:04 Merger Moving recordings from 2014.09.10.17.56.44.404-2014.09.10.17.57.46.380...
10/09/2014 20:03:04 Merger Recordings of 2014.09.10.17.56.44.404-2014.09.10.17.57.46.380 merged successfully
10/09/2014 20:03:04 Merger Merging recordings from 2014.09.10.17.57.47.720-2014.09.10.17.58.04.181...
10/09/2014 20:03:06 Driver Download not finished
10/09/2014 20:03:07 Merger Moving recordings from 2014.09.10.17.57.46.547-2014.09.10.17.58.04.107...
10/09/2014 20:03:07 Merger Recordings of 2014.09.10.17.57.46.547-2014.09.10.17.58.04.107 merged successfully
10/09/2014 20:03:09 Driver Connecting to 10.1.39.2 on port 80...
10/09/2014 20:03:10 Driver Downloading recordings from 10/09/2014 18:02:07 to 10/09/2014 20:02:07
10/09/2014 20:03:17 Driver Download not finished
10/09/2014 20:03:19 Driver Connecting to 10.1.39.2 on port 80...
10/09/2014 20:03:20 Driver Downloading recordings from 10/09/2014 18:02:07 to 10/09/2014 20:02:07
Digifort Servers
Digifort
Local
Recording Server
Status
Cameras
Edge recording
Alarm Devices
Alerts and Events
Contacts
Groups
Global Events
Scheduled Events
Users
Status
Users
Groups
Screenstyles
Maps
Analytics
License Plate Recognition
Settings
Server Information
Web Server
RTSP Server
Licenses
Logs
Administrating the server Local (IP: 127.0.0.1 Port: 8600)...

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2.1.5 Digifort Mobile Camera

The system now has a new software which allows recording and live viewing of images from mobile device cameras (Mobile phone, tablet..).

With the popularization of mobile devices and the availability of high-speed data networks, Mobile Camera becomes a very attractive solution for projects requiring mobile surveillance, such as:

- Police and tactical operations
- Cargo inspection
- Property security
- Patrol

The images from all mobile devices that are connected to the system can be recorded and viewed in real time by the operators.

The app will be available for Android and Apple devices.

2.1.6 Digifort Smart Glass (Google Glass integration)

This revolutionary new product allows the seamless integration of Digifort software with Google Glass. Using the capabilities of Mobile Camera, it can stream the video generated by Google Glass directly to Digifort, and through voice commands it is also possible to view any camera from Digifort system in Google Glass.

Digifort Smart Glass is a combination of Mobile Camera and Mobile Client, providing the features of both softwares in one compact device using voice commands for operations that require hands-free mobile surveillance.

Digifort is the first company in the world to integrate Google Glass with a VMS software.

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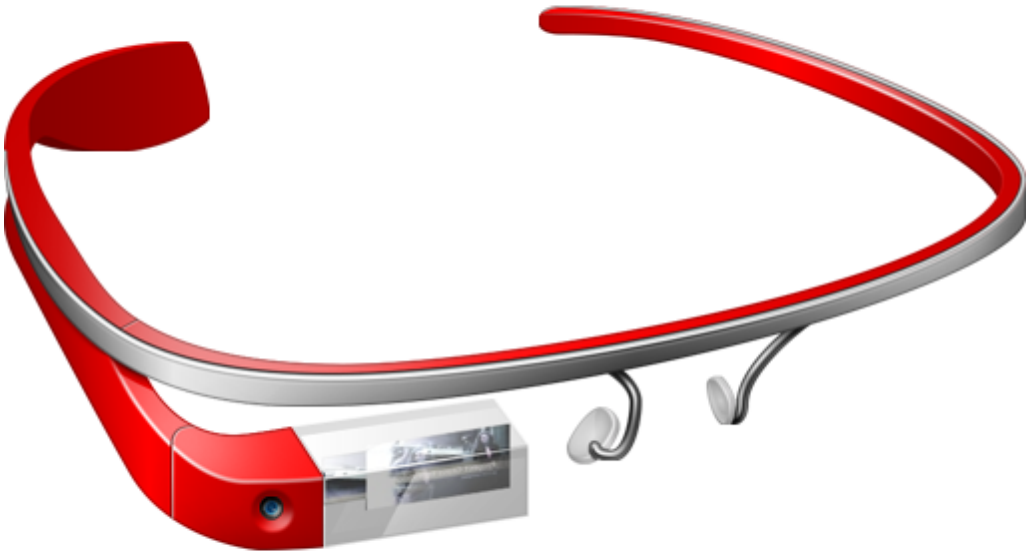

(c) aha-soft.com

2.1.7 Report Authentication

The system now has a great feature for verifying the authenticity of an issued report.

Often, reports need to be generated, be it from event records, LPR, analytics or even a print of an image of video playback. With the new Report Authentication feature, the system will add a barcode to all issued reports and this report will be saved in the server in a safe way. Later if you want to check a report issued by the system, simply request the report through the barcode and the system will generate it again with the originally saved data, making it possible to compare them with a pre-printed report in order to confirm its authenticity.

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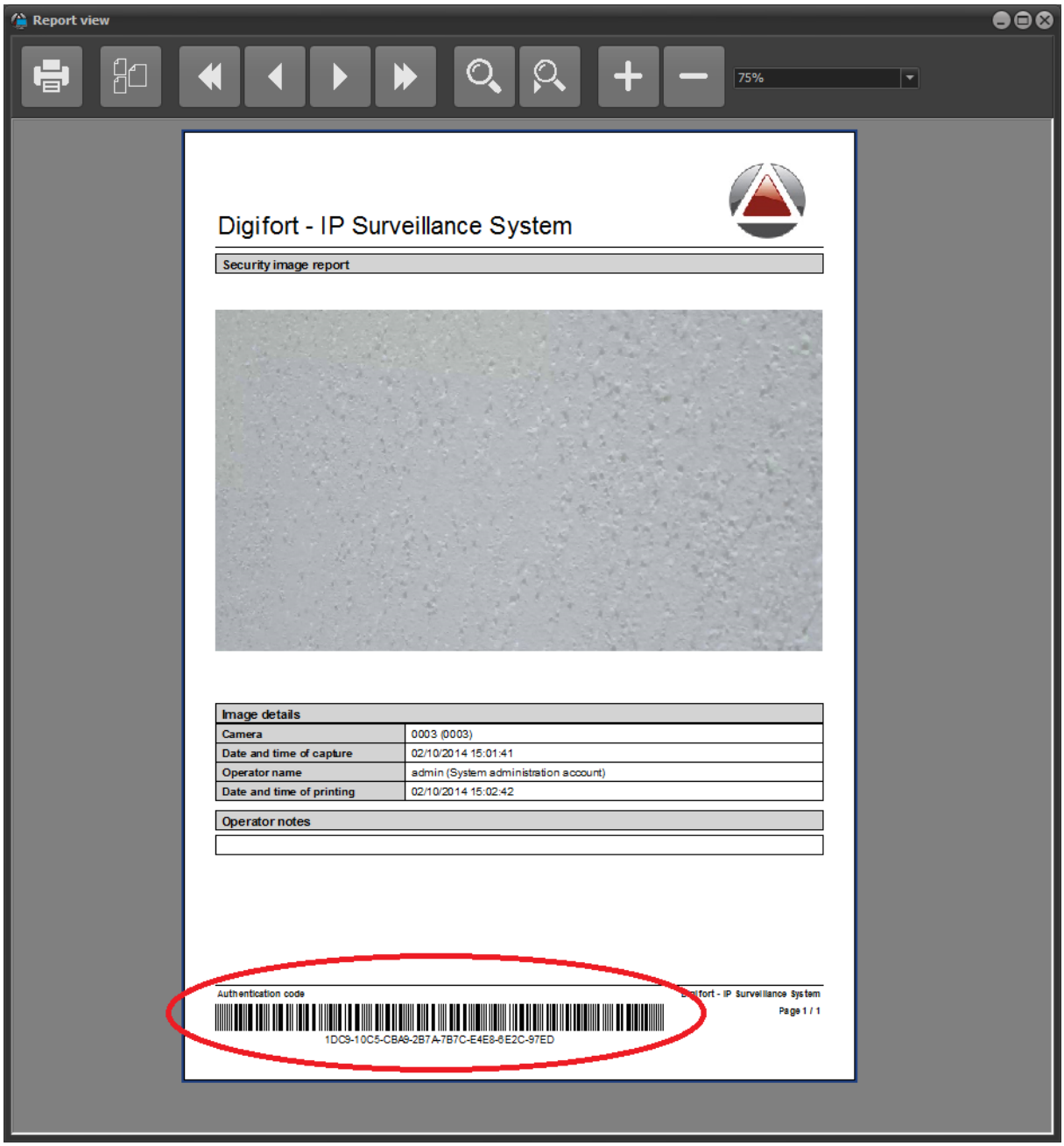

2.1.8 ONVIF Profile S

The system is now fully compatible with ONVIF Profile S specification and it is certified by the ONVIF forum itself (www.onvif.org)

2.1.9 LPR

The LPR system was highly improved in this version, providing great new features and improvements

2.1.9.1 License plate registration

The LPR system now has an integrated license plate registration, which allows importing and exporting records.

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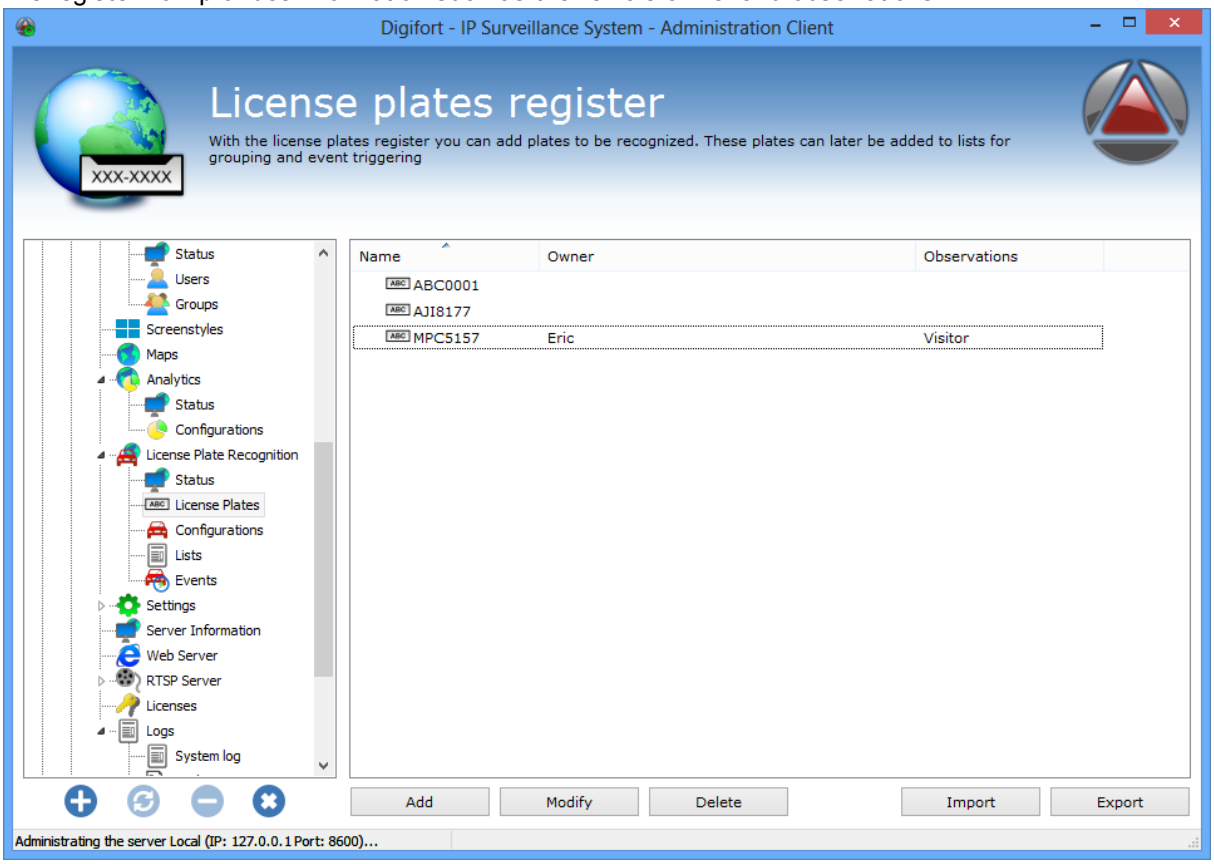
The registered license plates can be associated to lists for easy identification.

The register now provides information such as the vehicle owner and observations.



2.1.9.2 LPR Events

A new structure was created to manage the LPR events. Previously the events were generated by the license plate list itself, triggering an event when a plate was recognized in that list, however the new structure now provides a separated register of events which allows a better control of the environment.

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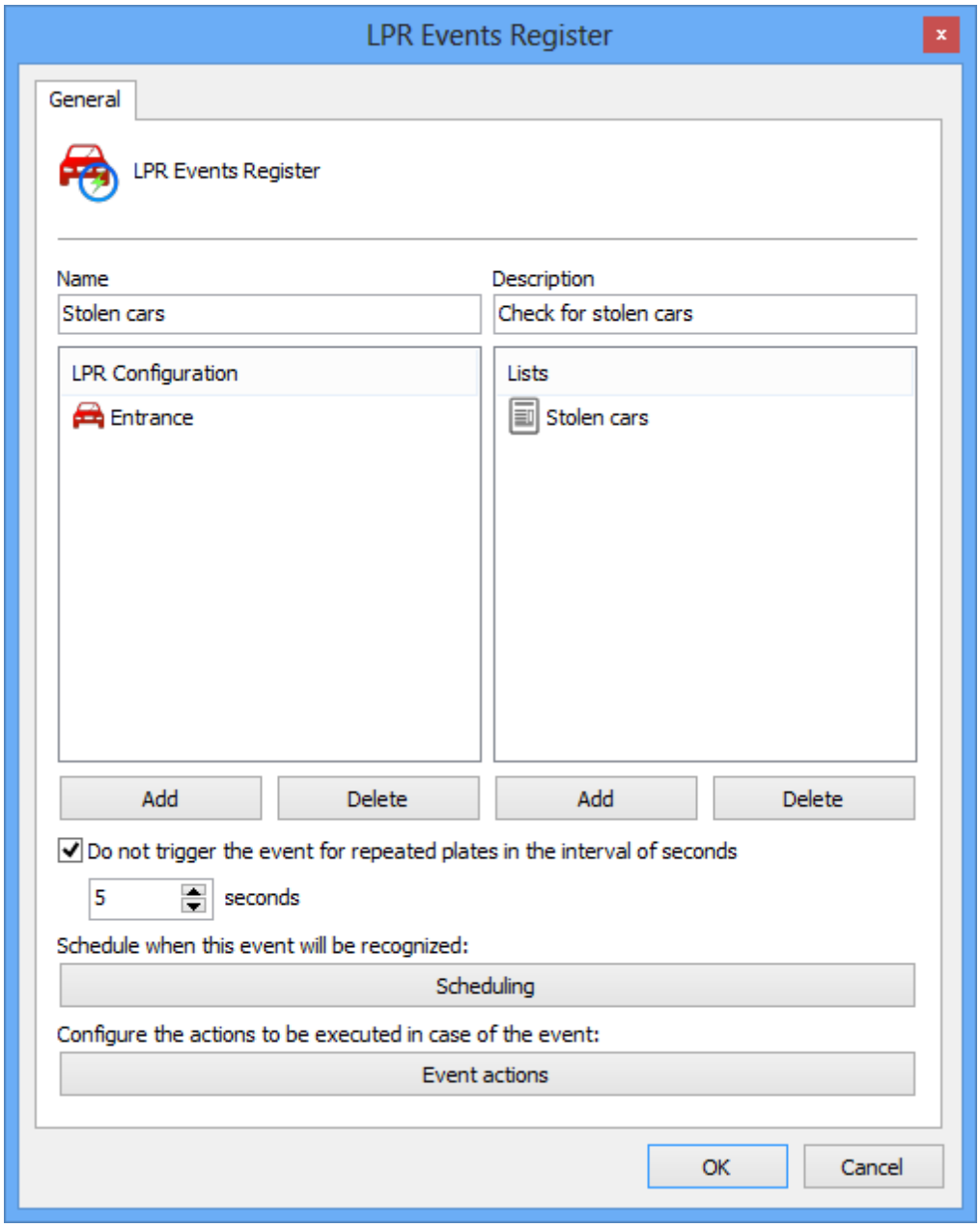

The new LPR events now allow the combination of lists and LPR Configurations, ie, if a vehicle is recognized in the configured lists of the event and it was captured by one of the specified configurations, the event will be triggered, enabling eg automatic control of entry and exit of vehicles from an entrance.

This feature also enables the system to prevent the same license plate to be recognized by the event during X seconds if the vehicle was recognized by more than one attached configuration.

2.1.9.3 New LPR engine

A new LPR engine was added to the system. The iPTS engine provides license plate recognition exclusively for Turkey.

The Carmen engine is still used to recognize license plates from the whole world and the Kapta engine

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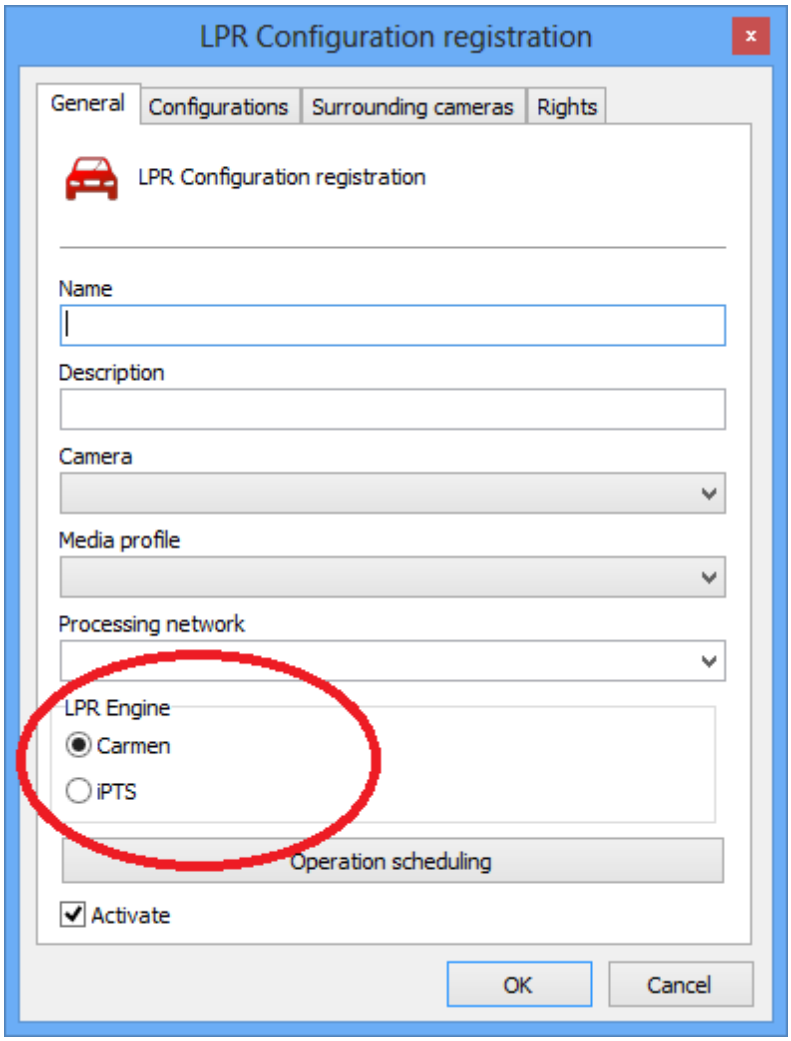
was removed from the system.



2.1.9.4 Option to save the images externally

The LPR system now provides the option to save the images of recognized plates in an external folder, instead of using the database for storage:

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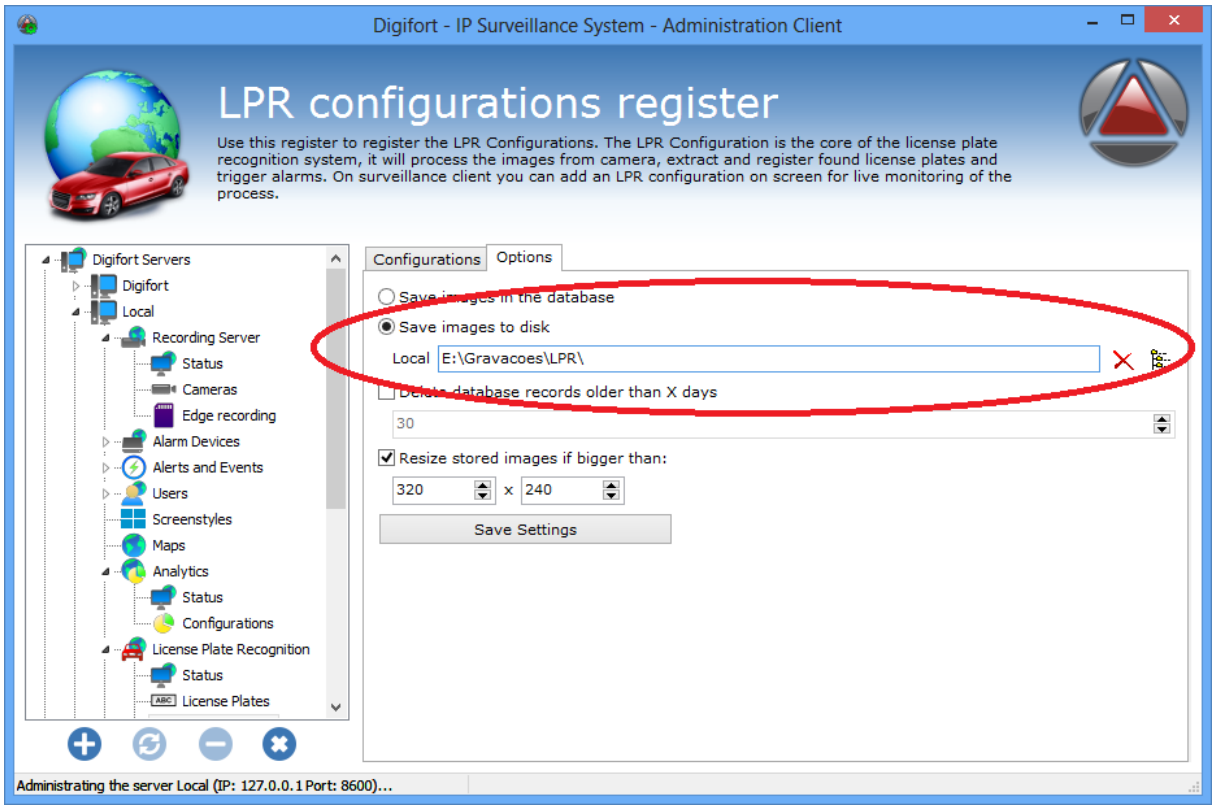

2.1.9.5 License plate masks in lists

The license plate lists now supports masks. Masks can be used to trigger events for a set of plates that meets a given criteria:

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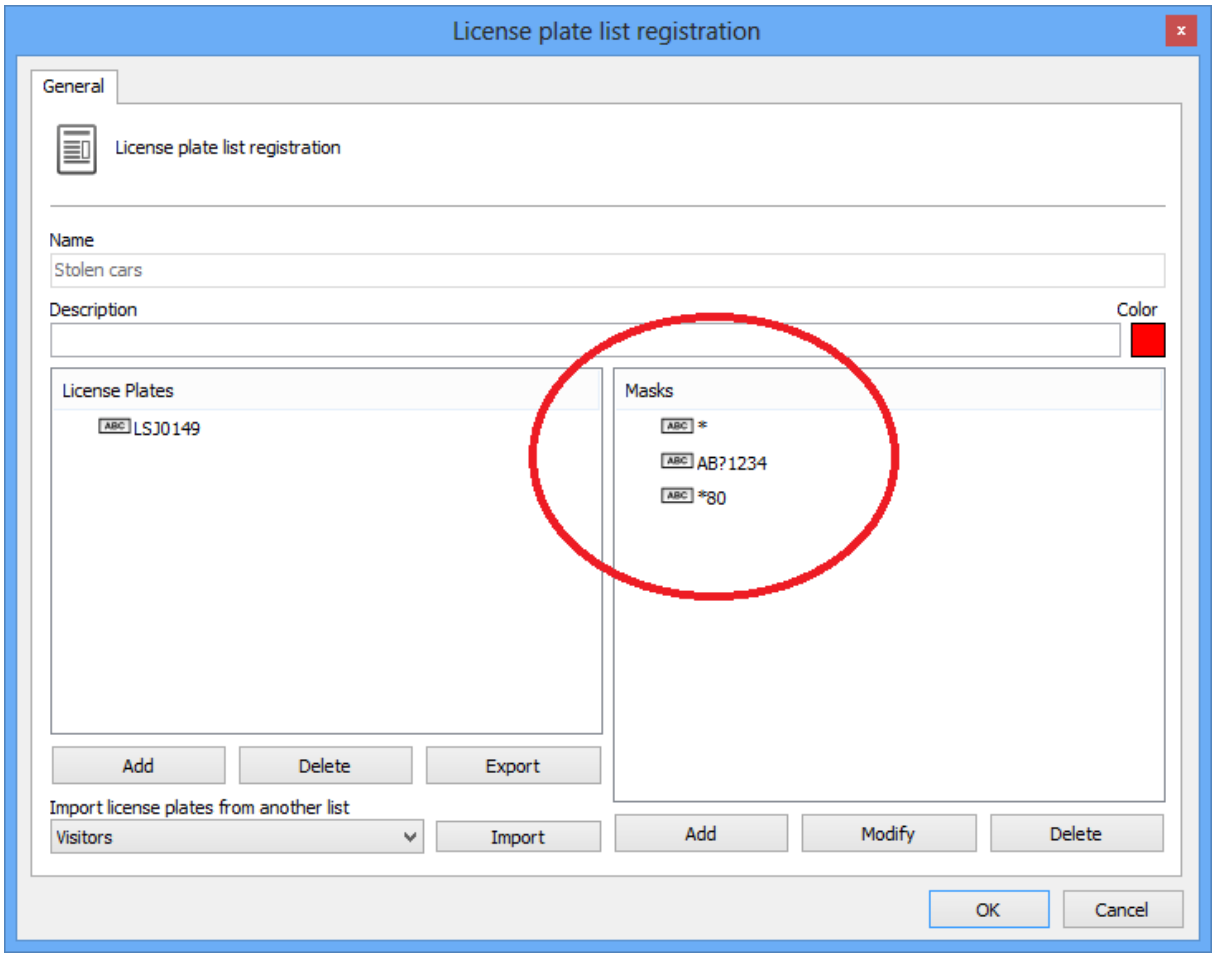

2.1.9.6 Automatic resizing of images

The system now allows automatic resizing of the images of a recognized license plate to a given size before saving to database. If the option is not maked, the system will store the original image.

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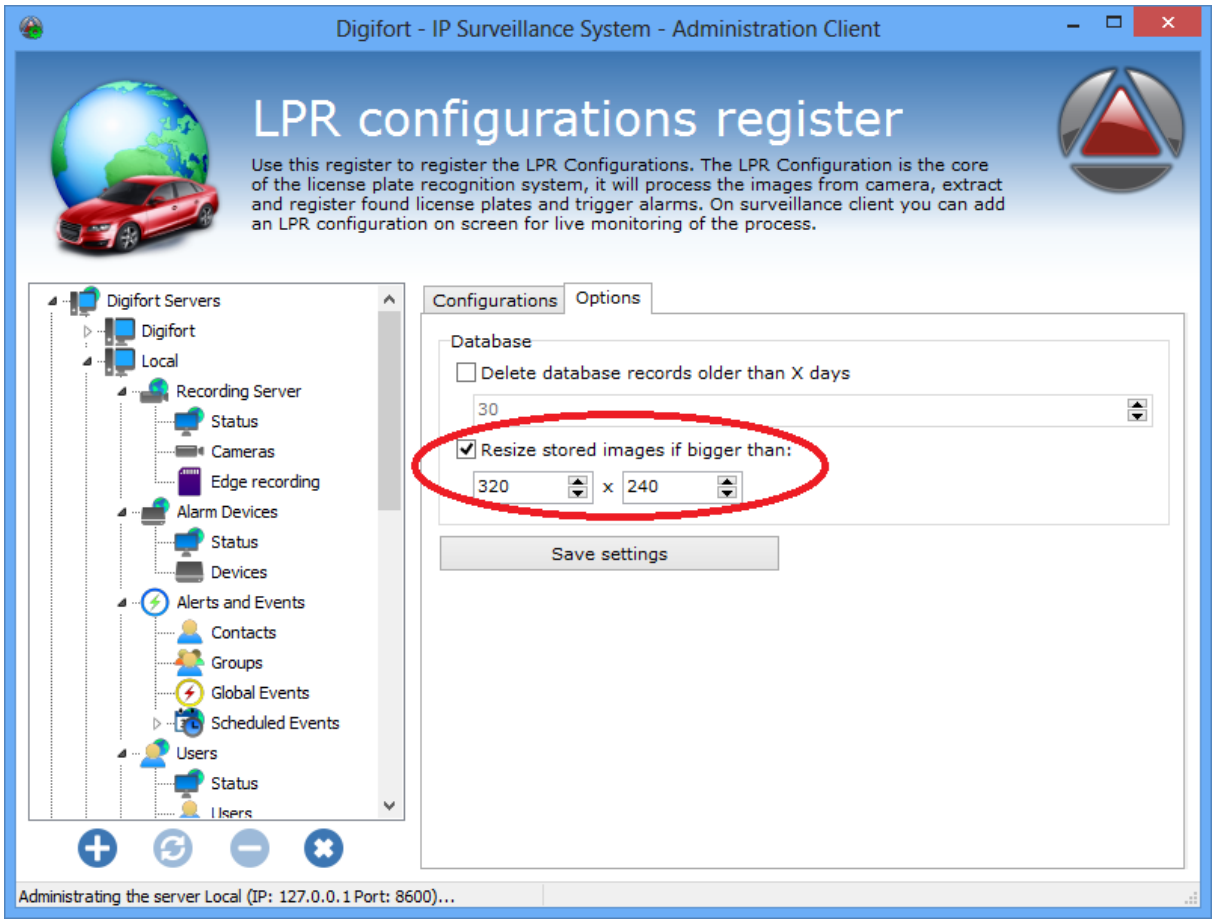

2.1.9.7 New interface for surveillance

The LPR monitor control in surveillance client now has a new user interface, totally redesigned to provide a better and clear viewing of the captured information.

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The new interface has:

- Sidebar with the latest recognized plates
- Panel with the image of a recognized plate
- Panel with a live camera and associated surrounding cameras
- Panel with information about the recognized license plate
- Panel containing the lists in which the plate was found

The new interface also allows the operator to register a new plate directly from the surveillance client

2.1.9.8 Trigger unrecognized license plates

The LPR engines now has a new option to trigger the plates that were not recognized, however this option is only available when using physical or external sensors. With this option, when a sensor notifies the system to start the recognition process and the system does not find any license plate, a record will be created with the character "-", identifying that a plate was not recognized.

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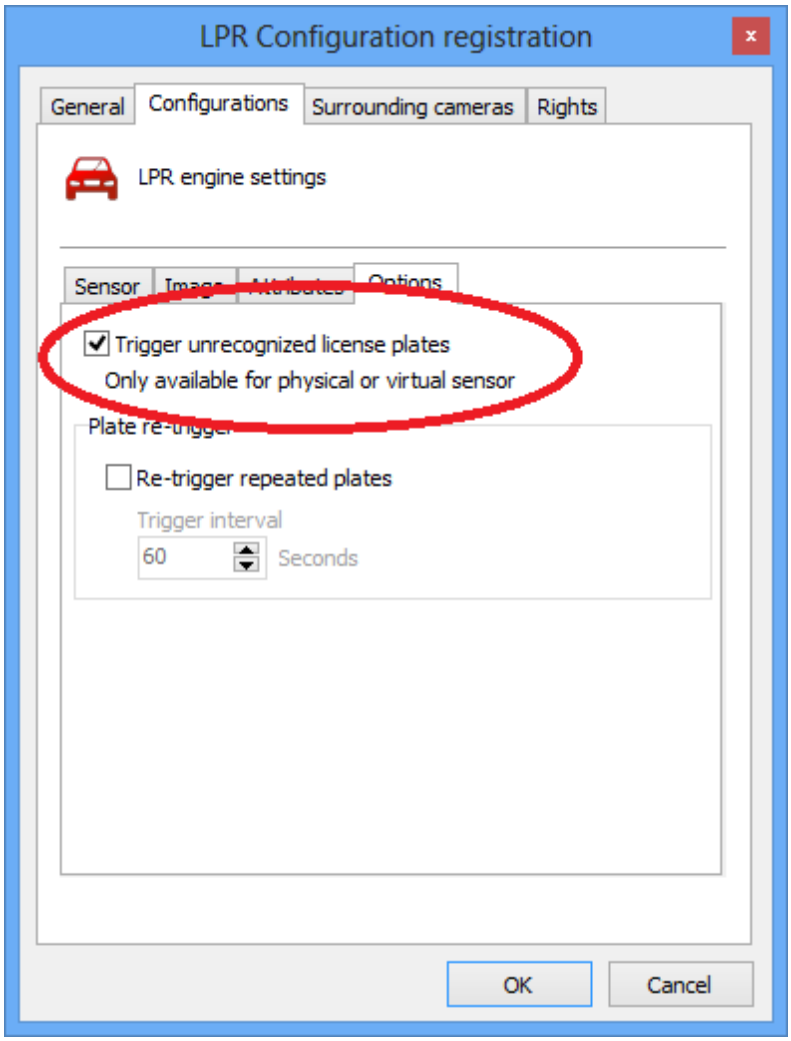

2.1.9.9 Filter for LPR Configuration in searchs

The LPR record seach show allows filtering by LPR Configuration

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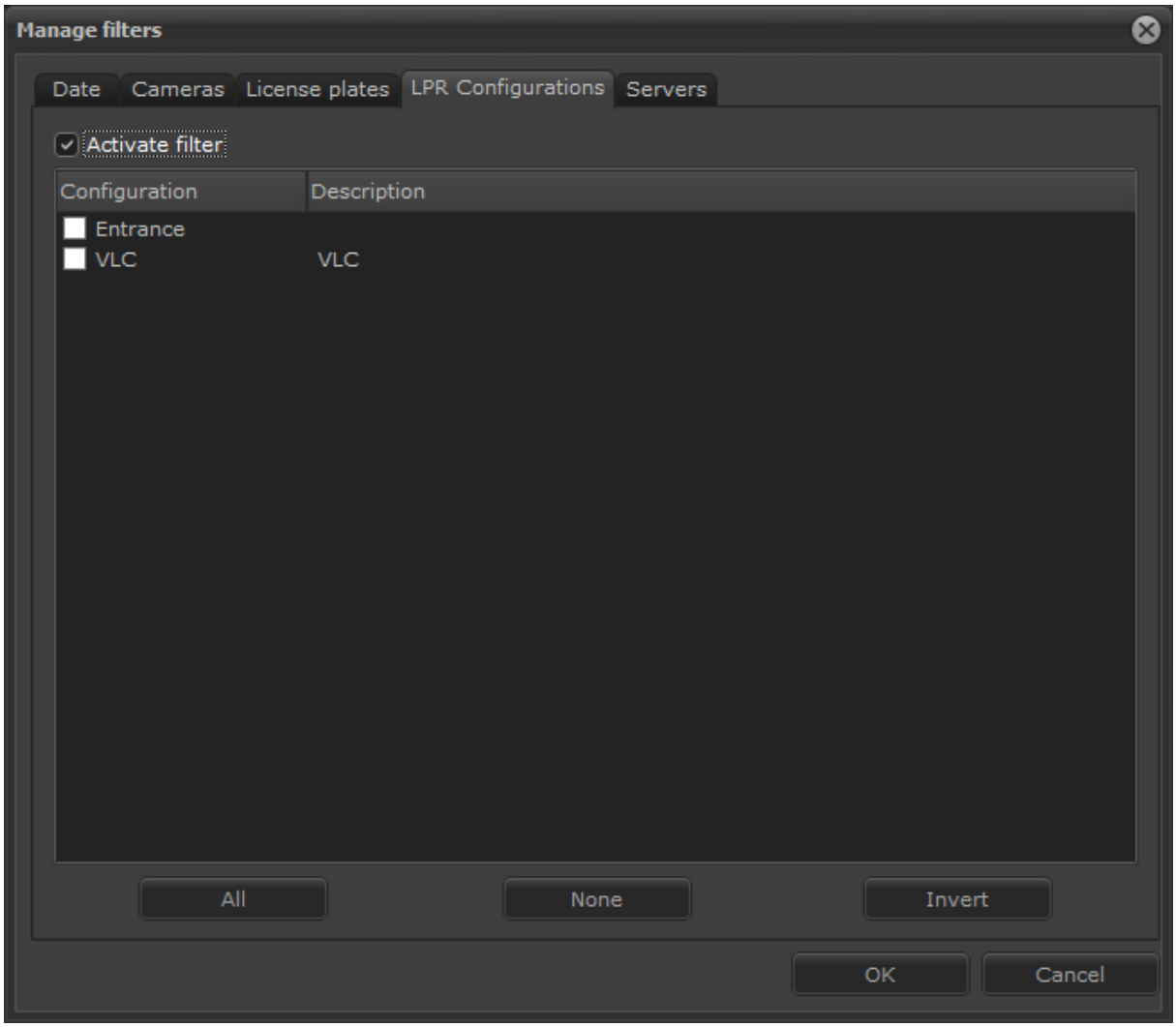

2.1.9.10 Reliability chart

The LPR record seach now provides a chart with the reliability of the results. This chart represents the reliability of character recognition.

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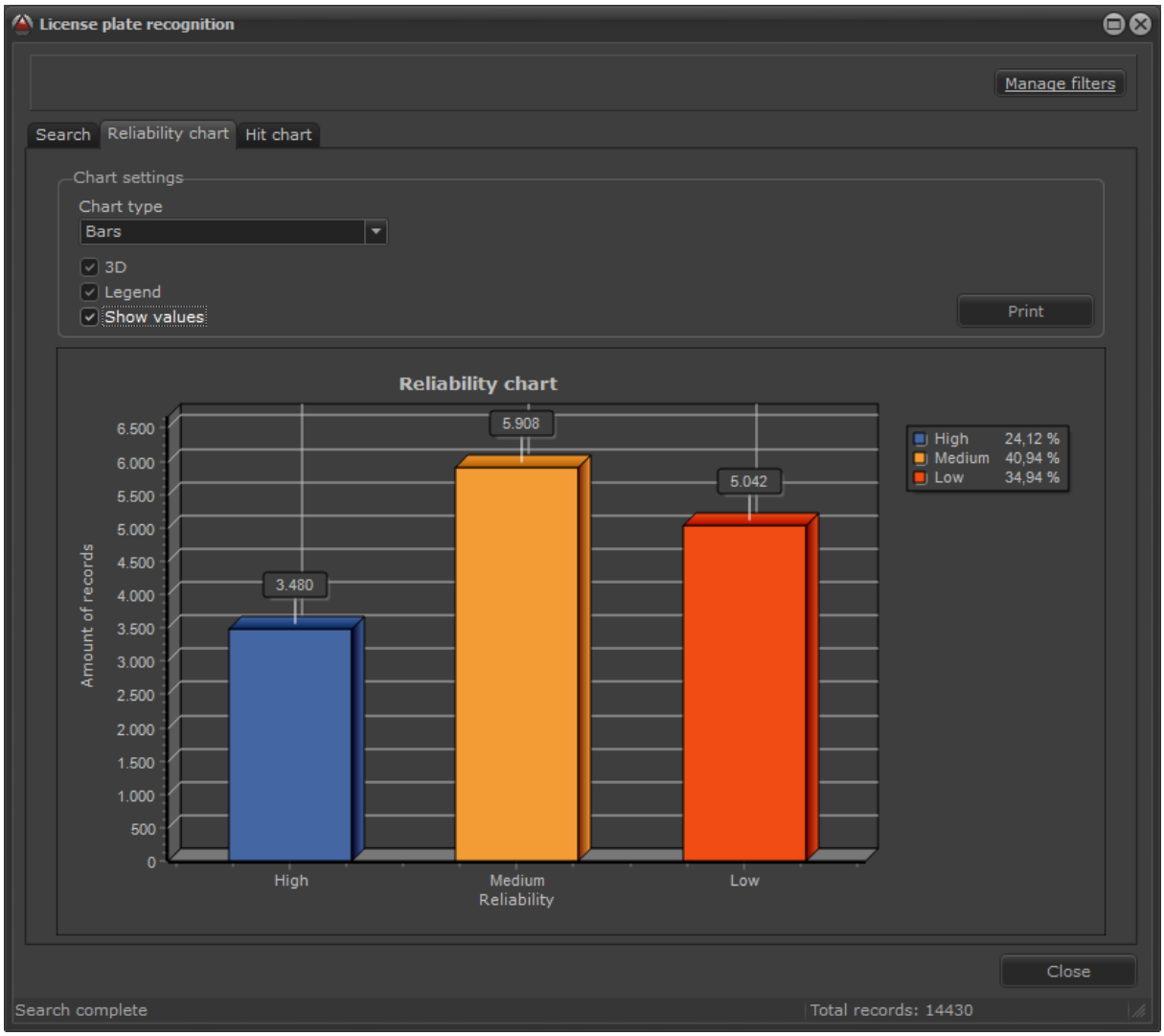

2.1.9.11 Hit chart

The LPR record search how provides a hit chart. This chart is calculated by using the values of reliability and shows total of records with good reading and bad reading.

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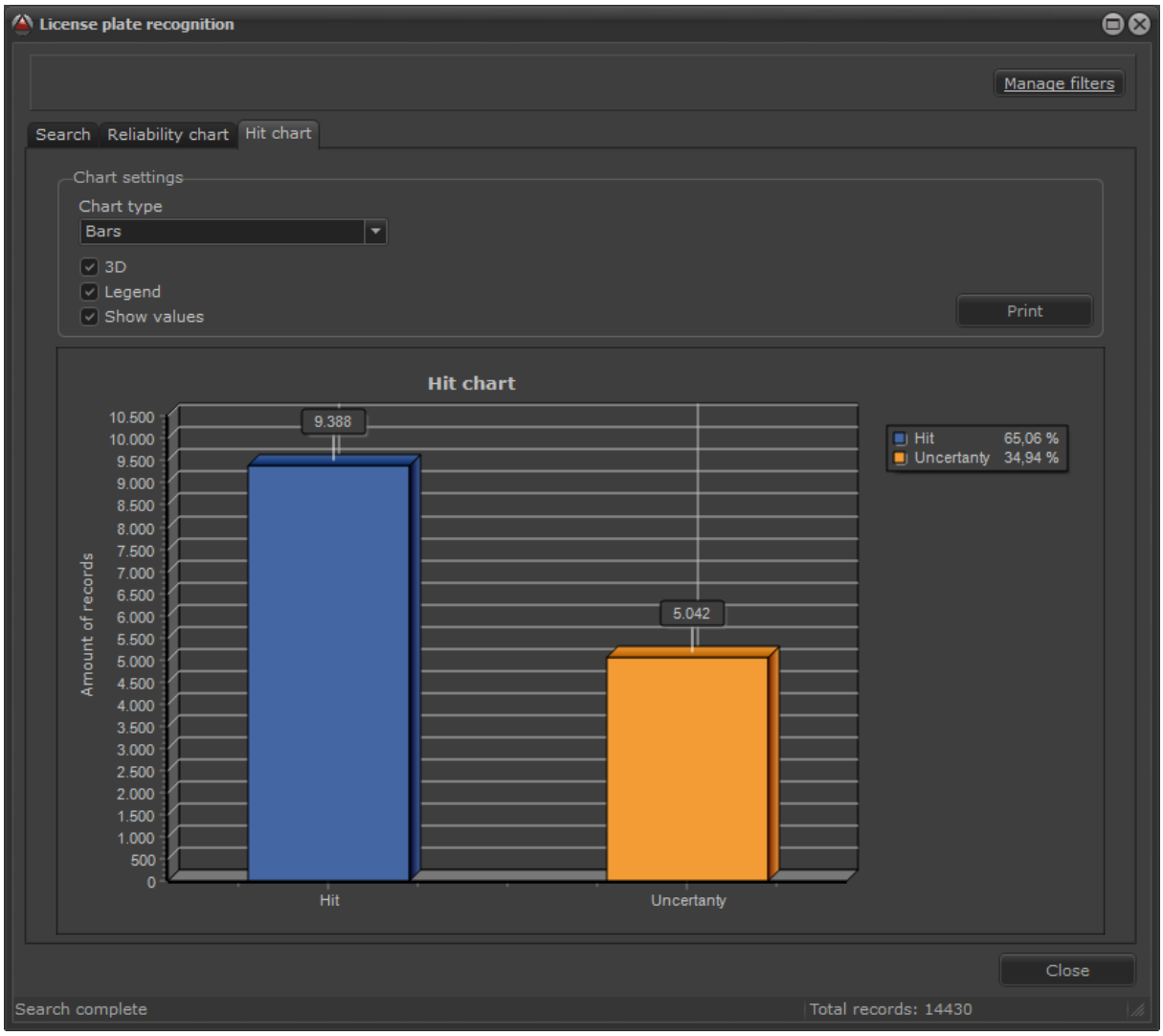

2.1.10 Analytics

2.1.10.1 New settings for advanced analytics

The advanced analytics now has a few more options:

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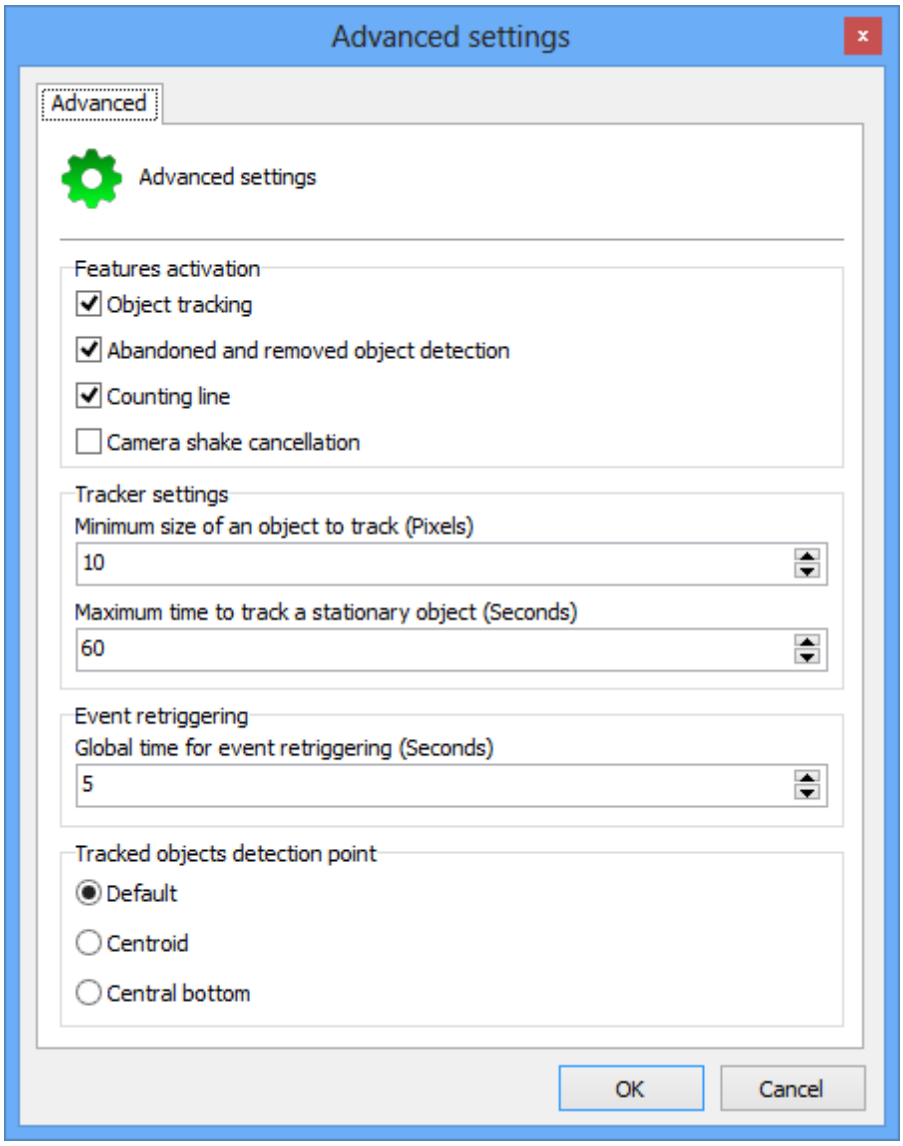

Event retriggering - Allow the system to use a cooldown time to retrigger the same event again

Detection point of tracked objects - It is now possible to configure the detection point of an object

2.1.10.2 Grouping of analytics records

The analytics reports now allows record grouping:

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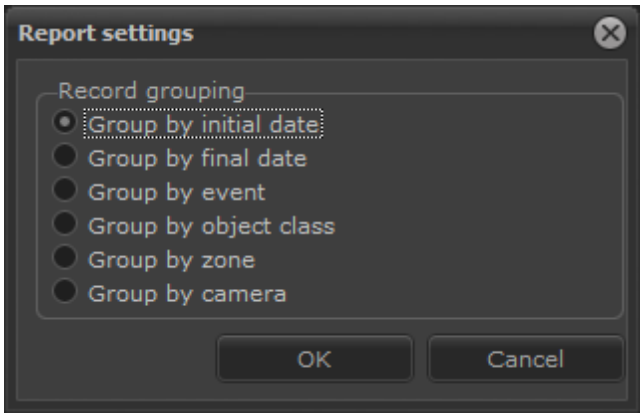

2.1.10.3 Edge analytics

Added support for edge analytics of Sony cameras (DEPA)

2.1.11 Performance improvement

Many improvements were made in the core the system to provide better performance and stability, including improvements in the multi-threading system, codec and rendering.

The system server now has a new multi-threading architecture that allows it to parallelize even more tasks to better use the resources of a CPU with multiple cores.

2.1.11.1 New video decoders

Added new decoders for H.264, MPEG-4 and H.263.

The new H.264 decoder has a performance gain of up to 63% compared to the decoder used in previous versions, which allows for visualization and management of even more cameras using the same hardware.

2.1.11.2 New image resizer

A new image resizer was implemented, providing more performance for rescaling, event when the option for bilinear resizing is used

2.1.11.3 New JPEG codec

A new JPEG codec was implemented. The JPEG codec is used by the server to decode and encode JPEG images. The new codec has superior performance compared to the old codec.

2.1.12 New administrative features and improvements

2.1.12.1 New information columns in register screens

The administration client now has a great tool that will assist the management and configuration of objects in a server. The extended columns are implemented for all registration screens that contain information that can be displayed in a list.

In the registration of cameras for example, the user can select which columns should be displayed:

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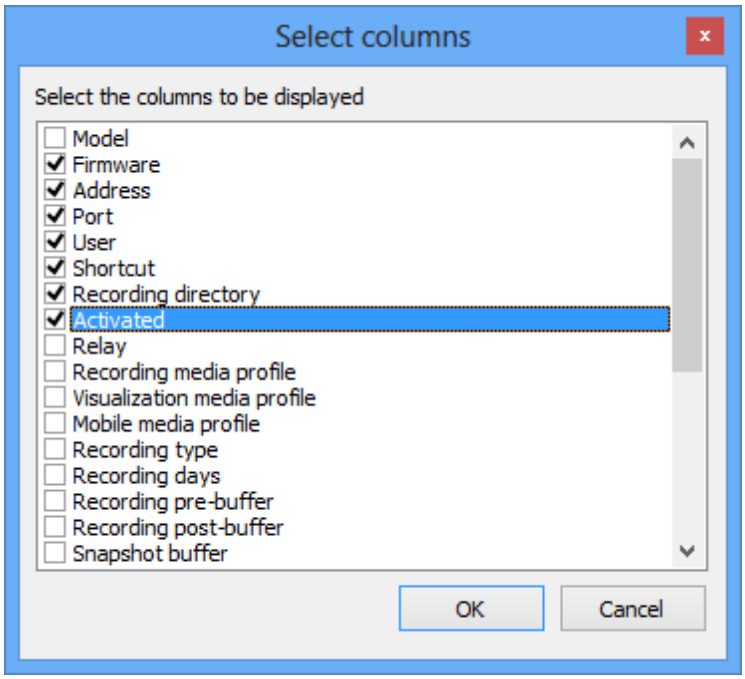
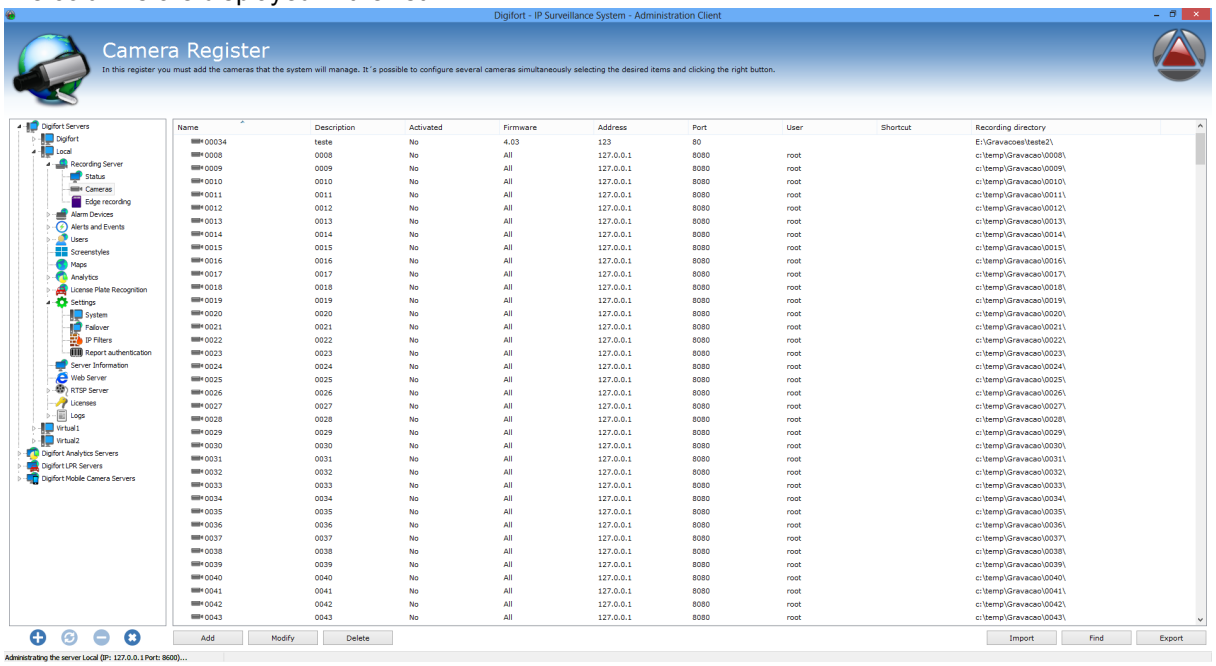


The columns are displayed in the list:


Digifort - IP Surveillance System - Administration Client
Camera Register
In this register you must add the cameras that the system will manage. It´s possible to configure several cameras simultaneously selecting the desired items and clicking the right button.
Add
Modify
Delete
Import
Find
Export

The columns can also be sorted, moved and resized. The selected columns are saved and the next time the registration is opened they will be displayed in the same manner in which they were configured.

This will become an indispensable tool for administration of large and medium installations.

2.1.12.2 Object importing

Importing objects from a remote server is a new tool that will help manage large Digifort installations.

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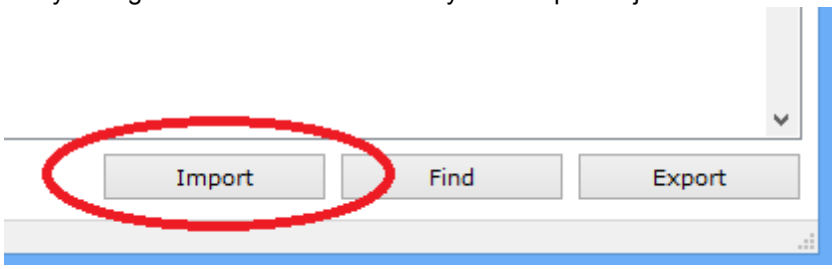
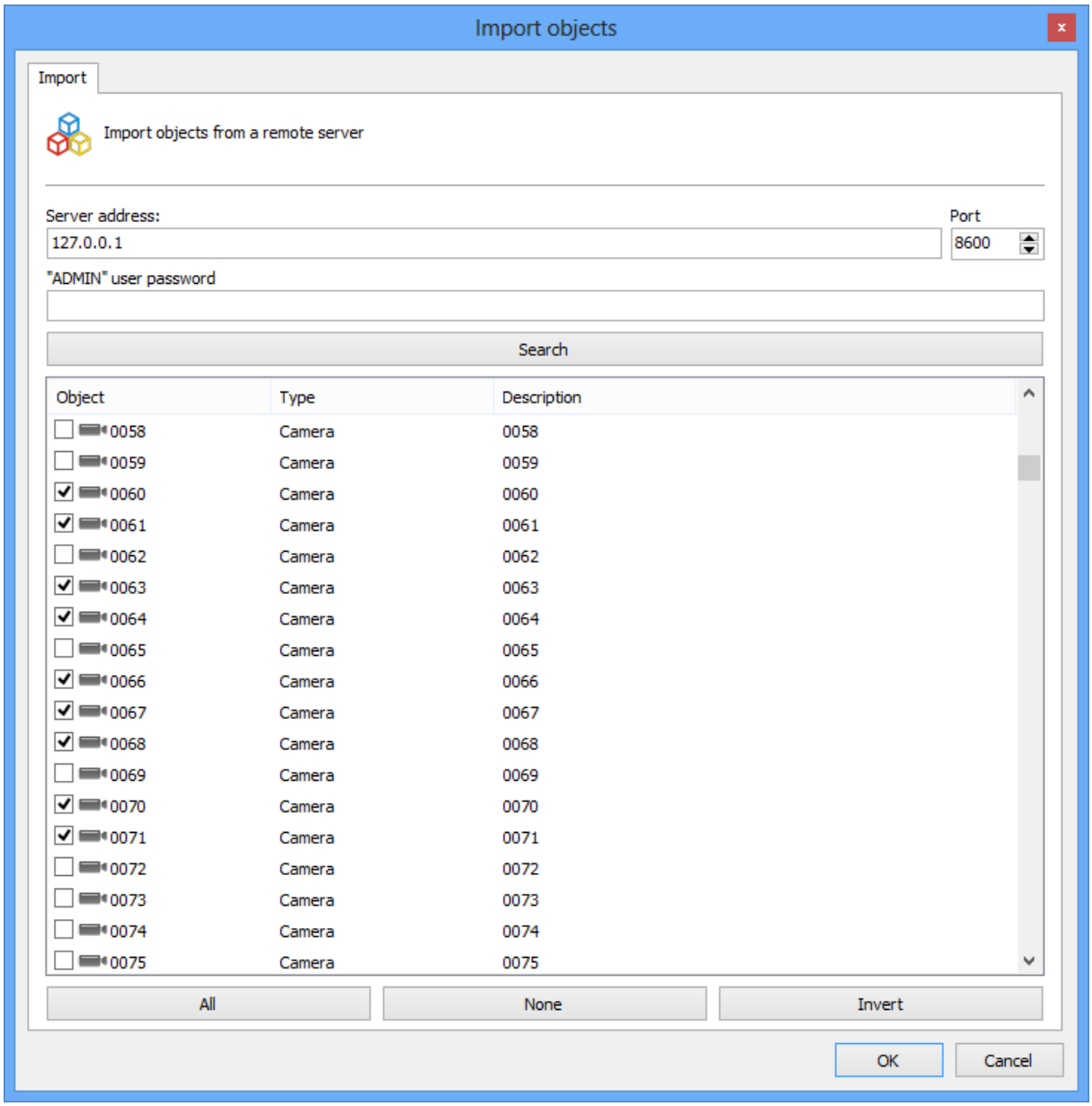
This new tool allows the system to import objects from other Digifort servers, accelerating the configuration of a new server.

The system allows importing of any object type such as Cameras, Alarm Devices, Users, LPR Configurations and Analytics Configurations.

Every configuration screen that allows you to import objects now has an "Import" button



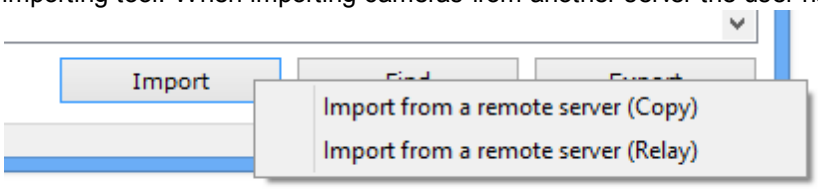
© 2002 - 2015 by Digifort. All rights reserved.



2.1.12.2.1 Import cameras for relay

Many Digifort installations often need to provide external access to live cameras and many customers prefer not to provide access directly to the main server, but rather a parallel media server whose function is to get live images from the main server and providing them to external clients.

To assist in the creation of this media server, we have created a new option using the system object importing tool. When importing cameras from another server the user has 2 options:



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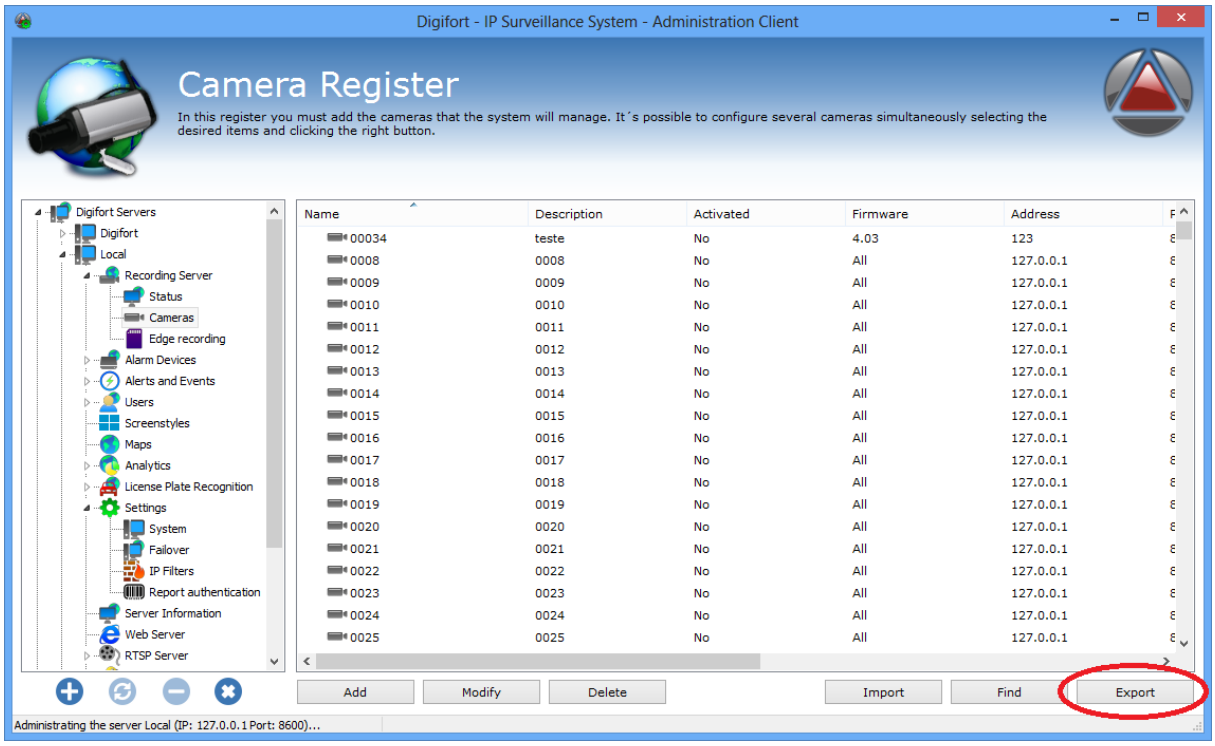
The option to "Import from a remote server (Relay)" will import the cameras from the server and configure them to get the images to the remote server instead of getting images directly from the cameras (To prevent duplicated connections with them). With this, the administrator can create a new server to provide live cameras in an easy and fast way!

2.1.12.3 Exporting information from object registers

All object registration screens from administration client will now have a export button to allow the data on screen to be exported to a file. By using this feature, the administrator can get reports with the desired information about each module of the system. The data will be exported into a CSV file:



2.1.12.4 New event actions interface

With the addition of new event actions, the screen to select those actions was also changed with the objective of providing a better control and overview of the selected actions for a given event:

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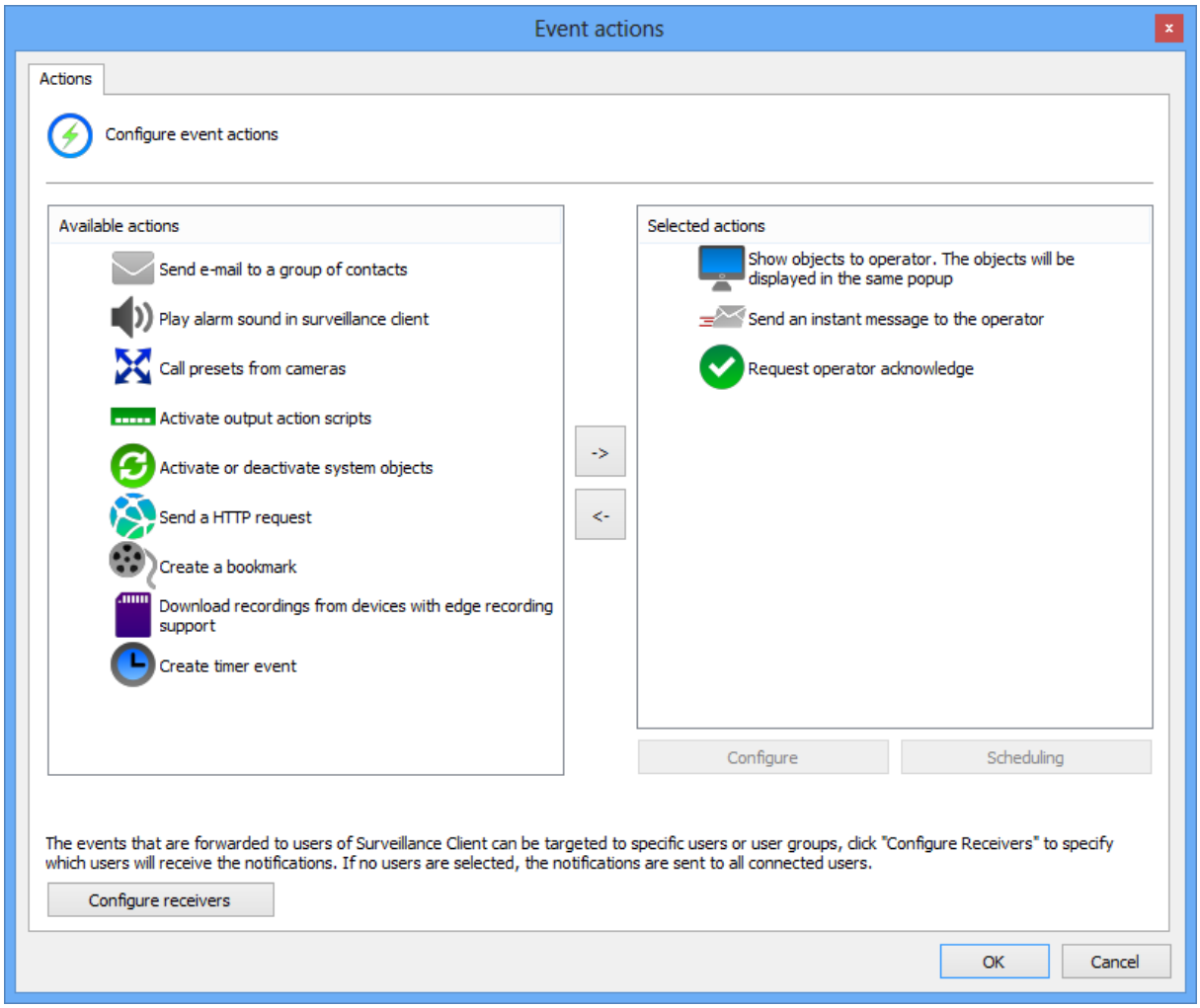
Event actions
Actions
Configure event actions
Available actions
Send e-mail to a group of contacts
Play alarm sound in surveillance client
Call presets from cameras
Activate output action scripts
Activate or deactivate system objects
Send a HTTP request
Create a bookmark
Download recordings from devices with edge recording support
Create timer event
->
<-
Selected actions
Show objects to operator. The objects will be displayed in the same popup
Send an instant message to the operator
Request operator acknowledge
Configure
Scheduling
The events that are forwarded to users of Surveillance Client can be targeted to specific users or user groups, click "Configure Receivers" to specify which users will receive the notifications. If no users are selected, the notifications are sent to all connected users.
Configure receivers
OK
Cancel

2.1.12.5 New features for scheduling

The whole scheduling system has been completely redesigned to allow new functions such as:

- Custom schedules of days (Eg holidays, important dates)
- Easy to setup
- Easier to view the overview of scheduling

To meet the new requirements, a new configuration interface was created:

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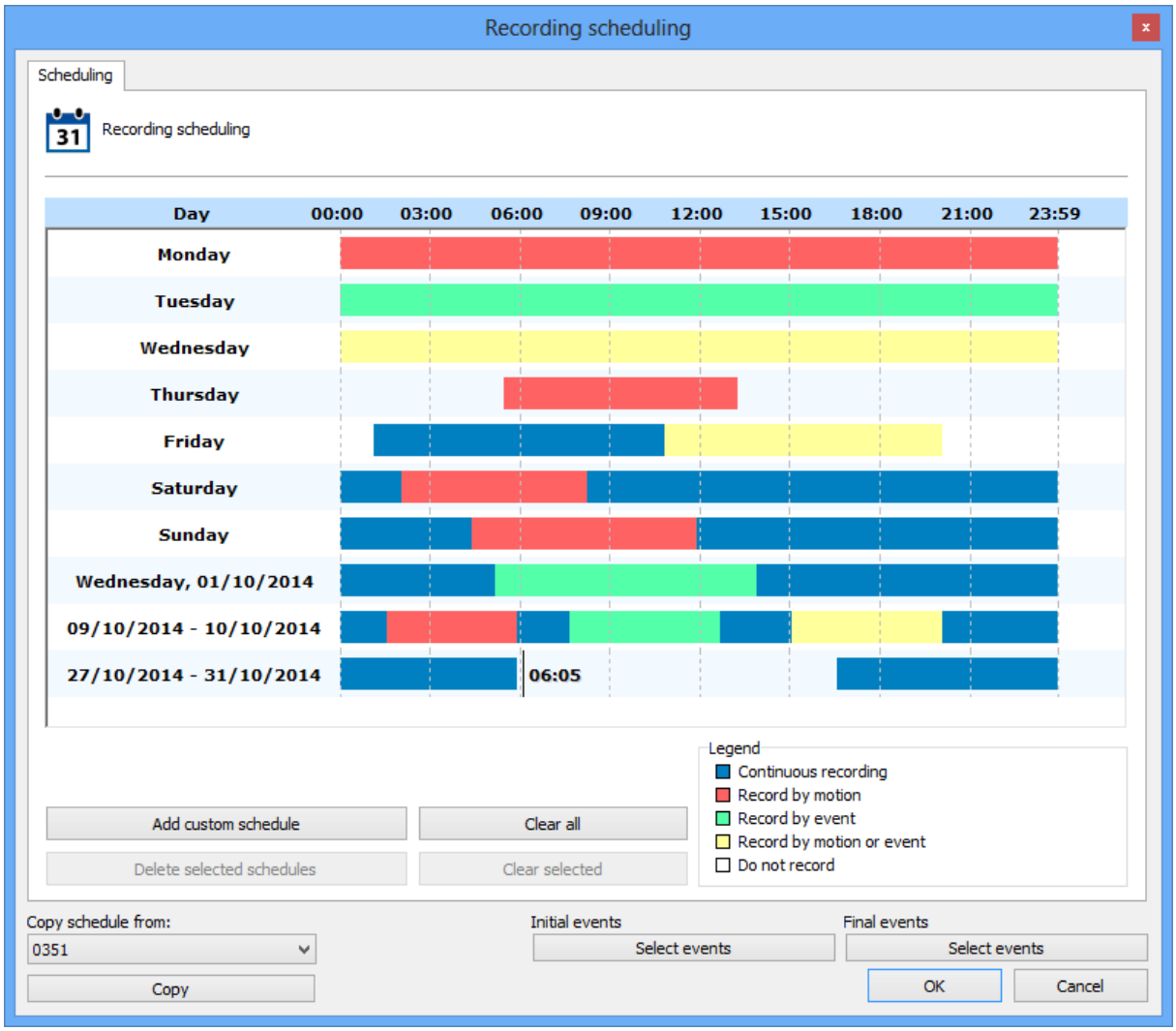

2.1.12.6 Independent scheduling for alarm inputs

The system now allows the configuration of independent schedules for each alarm input event (For cameras and alarm devices):

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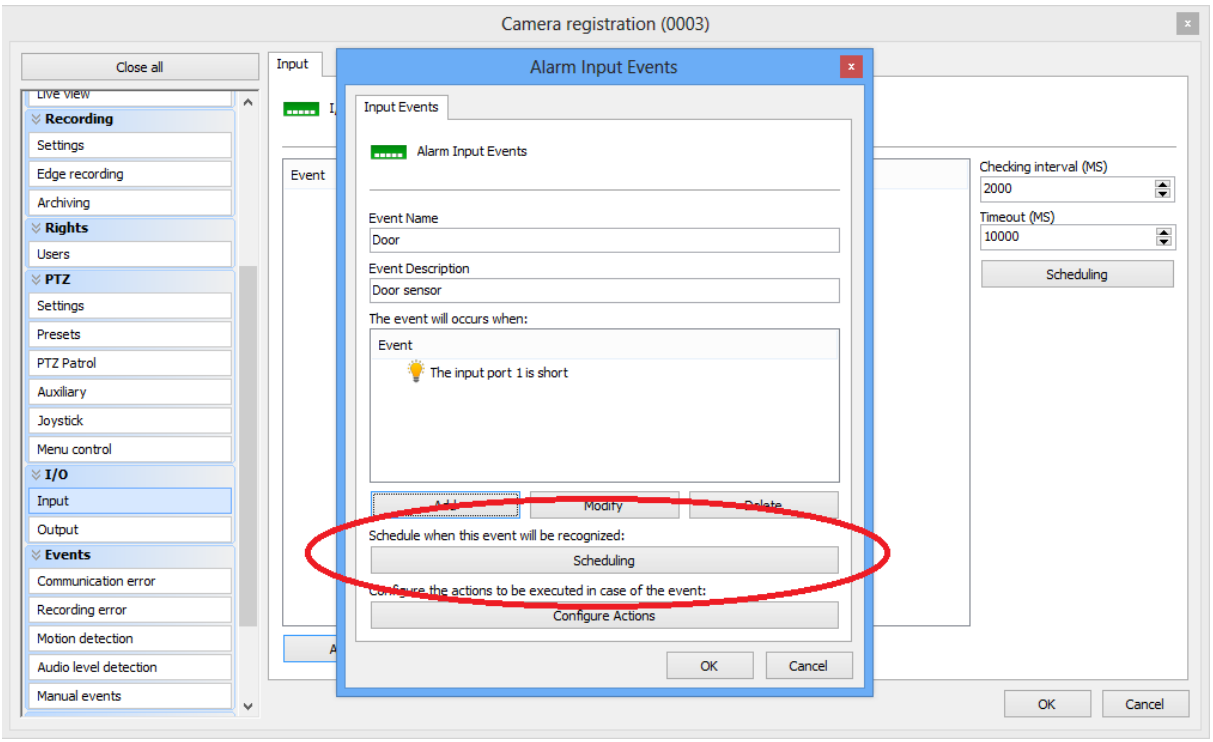
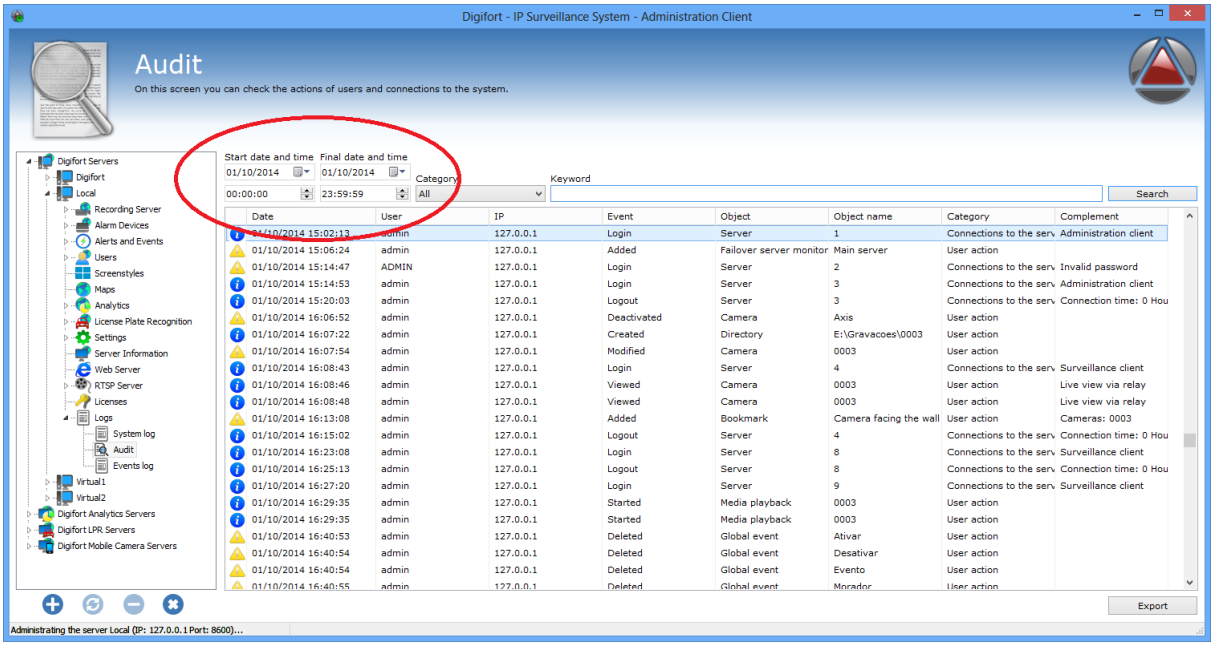


2.1.12.7 Audit improvements

2.1.12.7.1 Date and time interval in search

You can now specify a range of initial and final date for searching audit records:



2.1.12.7.2 Details of audit records

The system now provides a screen for better visualization of details from an audit record.

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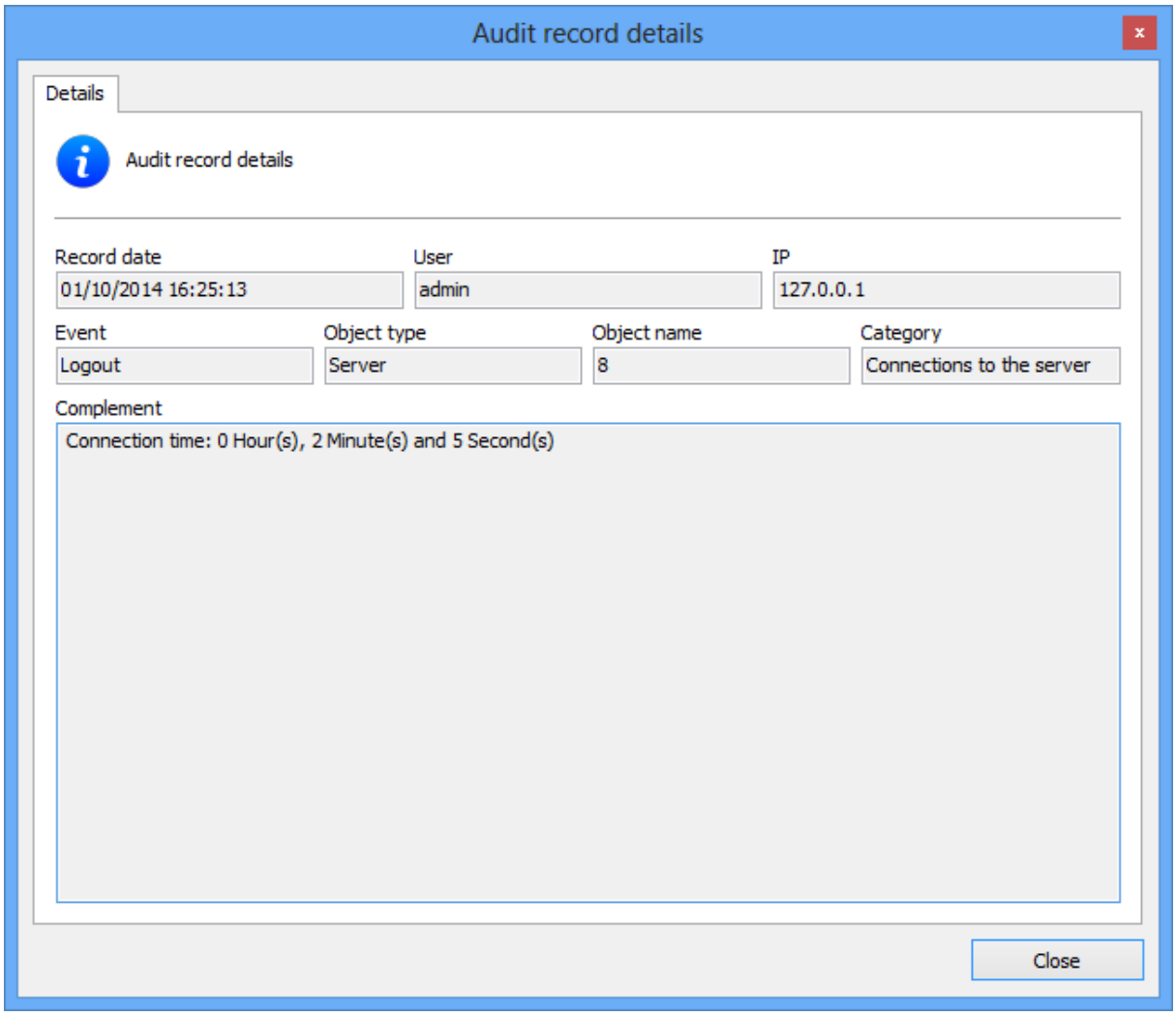
To view a record details, just double click on it and its details will be displayed in a separated form:



2.1.12.7.3 Audit for media exporting

All media exporting will now be registered in the system audit logs.

The system will register start and end of an exporting and will provide information such as exported time period, exporting folder where the files were saved and total size of exporting:

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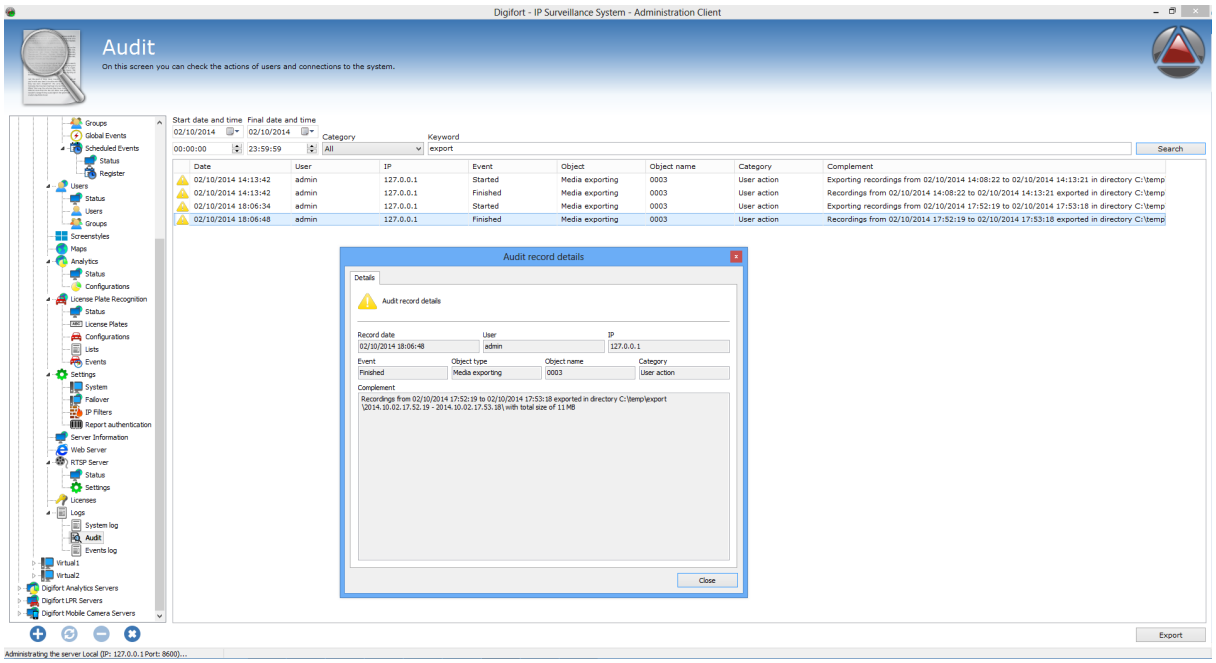
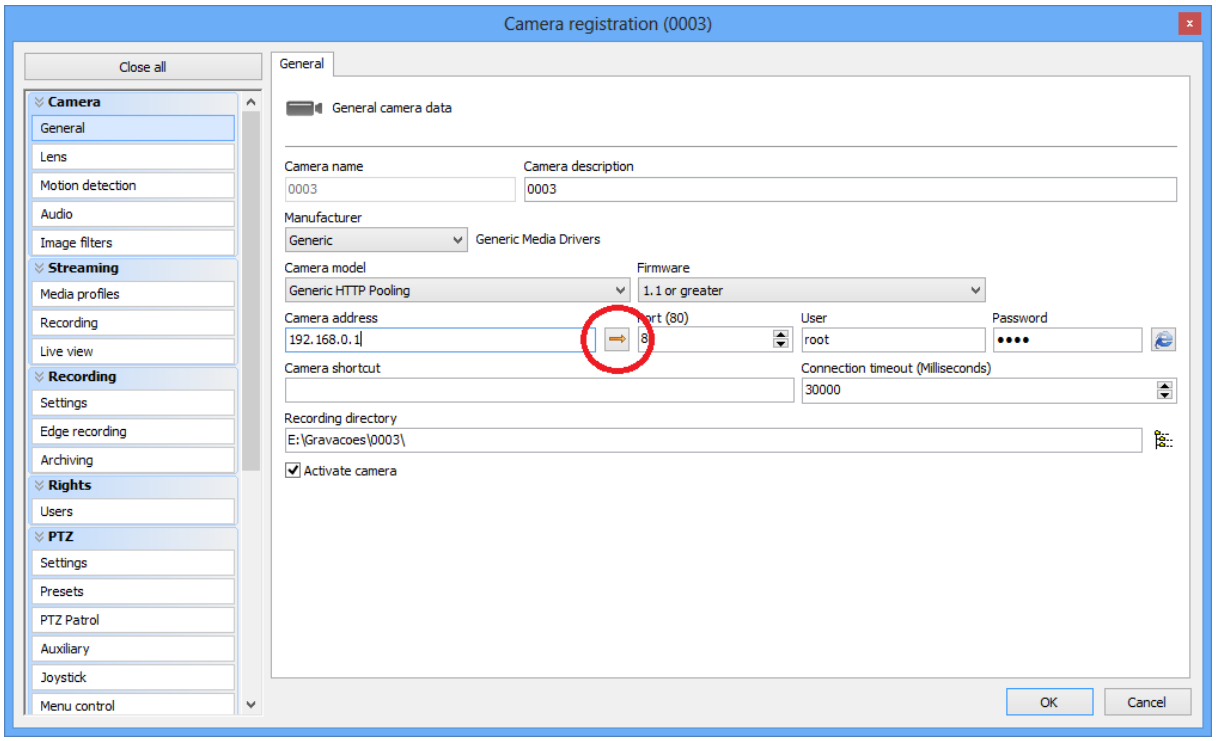

Digifort - IP Surveillance System - Administration Client
Audit
On this screen you can check the actions of users and connections to the system.
Audit record details
Export

2.1.12.7.4 Better audit for connections

The audit records for server connections were improved. The system will no longer register superfluous connections (TCP connections for camera viewing) and will now provide details on connection and disconnection from clients.

2.1.12.8 Ping cameras from registration screen

The camera registration screen now has a ping button to assist the installation of a camera:



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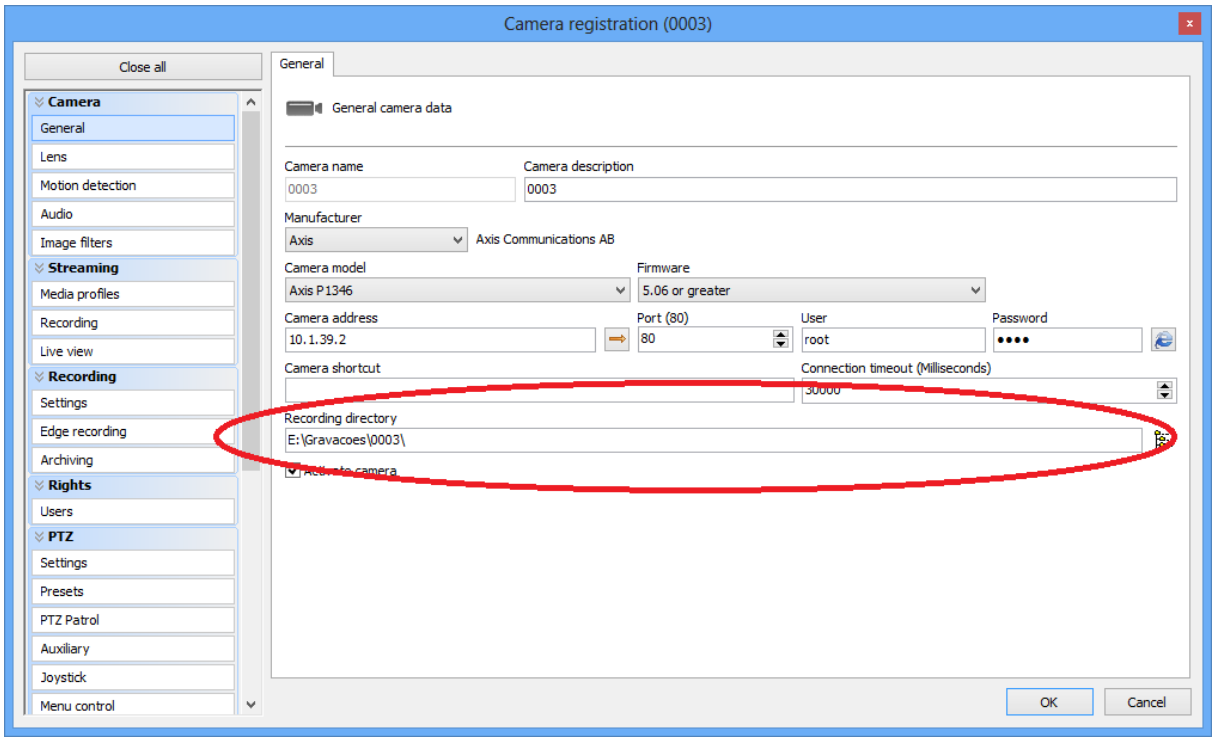
2.1.12.9 Recording path field improvement

The recording path field in the camera settings is now open for being edited and modified manually, without the need to select it through the remote folder selection tool:

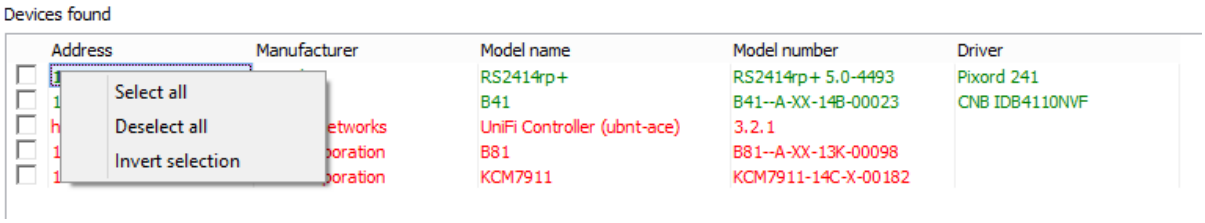


2.1.12.10 User rights simplification

The list of user rights was simplified, many rights that previously existed were grouped into single rights, easing the administration and configuration of the system.

2.1.12.11 Device finder improvements

The network device finder tool will now have a context menu to allow the selection of all found devices for registration:



The user can also sort the results by clicking on the desired column

2.1.12.12 Improvements for periodic server report

The periodic server report sent by e-mail was improved for:

- Informing the server IP address in the e-mail title
- Informing the status of the server in the report

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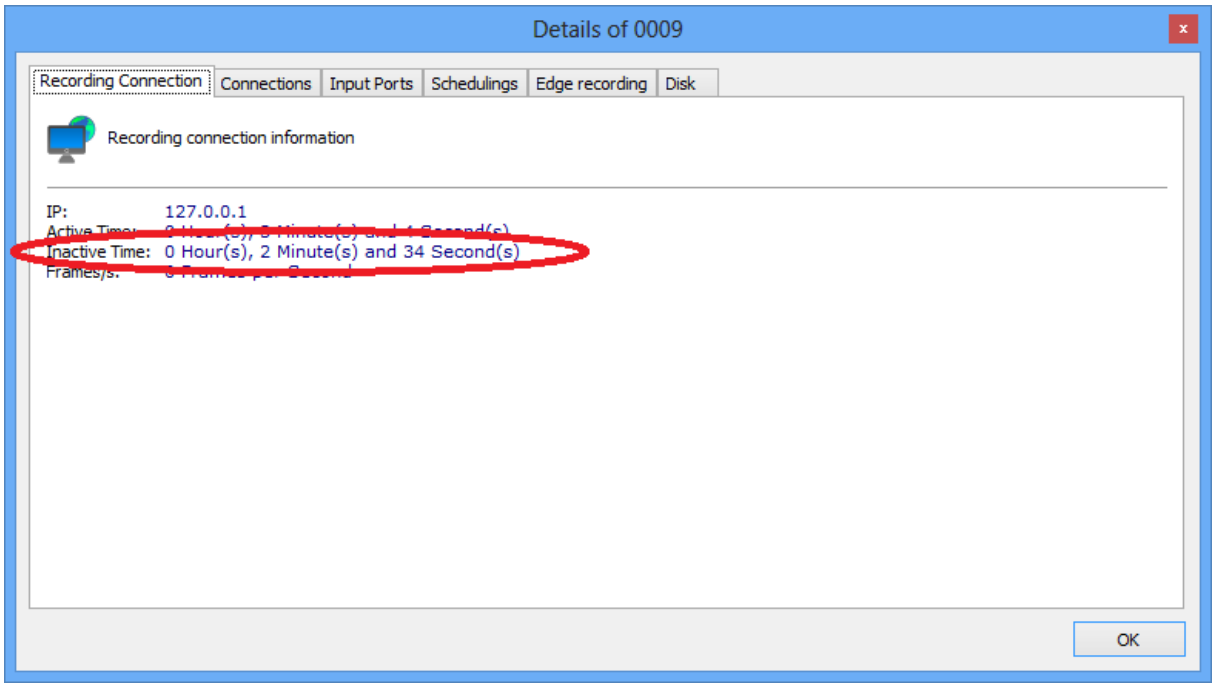
2.1.12.13 Better detection of device inactivity

The detection of inactivity time of devices (Cameras and alarm devices) was improved, the system will now show the total inactivity time for the device. Previously this value was reset whenever the communication driver tried to reestablish the connection to the device, showing a non-realistic value.



2.1.12.14 Automatically block user account by invalid login

The system now allows the automatic blockage of user account upon invalid password login tries:

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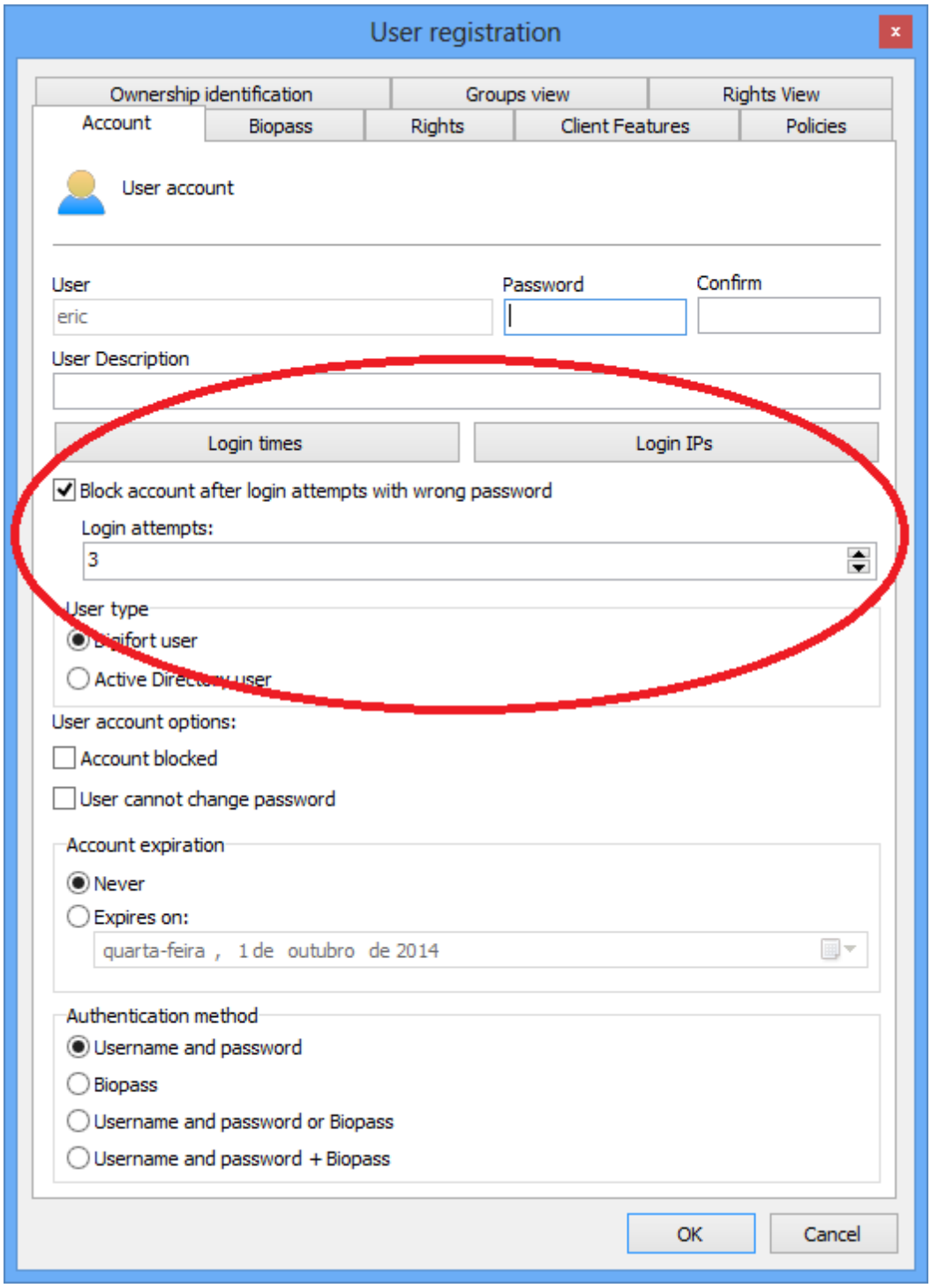

2.1.12.15 User account blocking and expiration for Active Directory users

The system now allows account blocking and expiration for Active Directory imported users.

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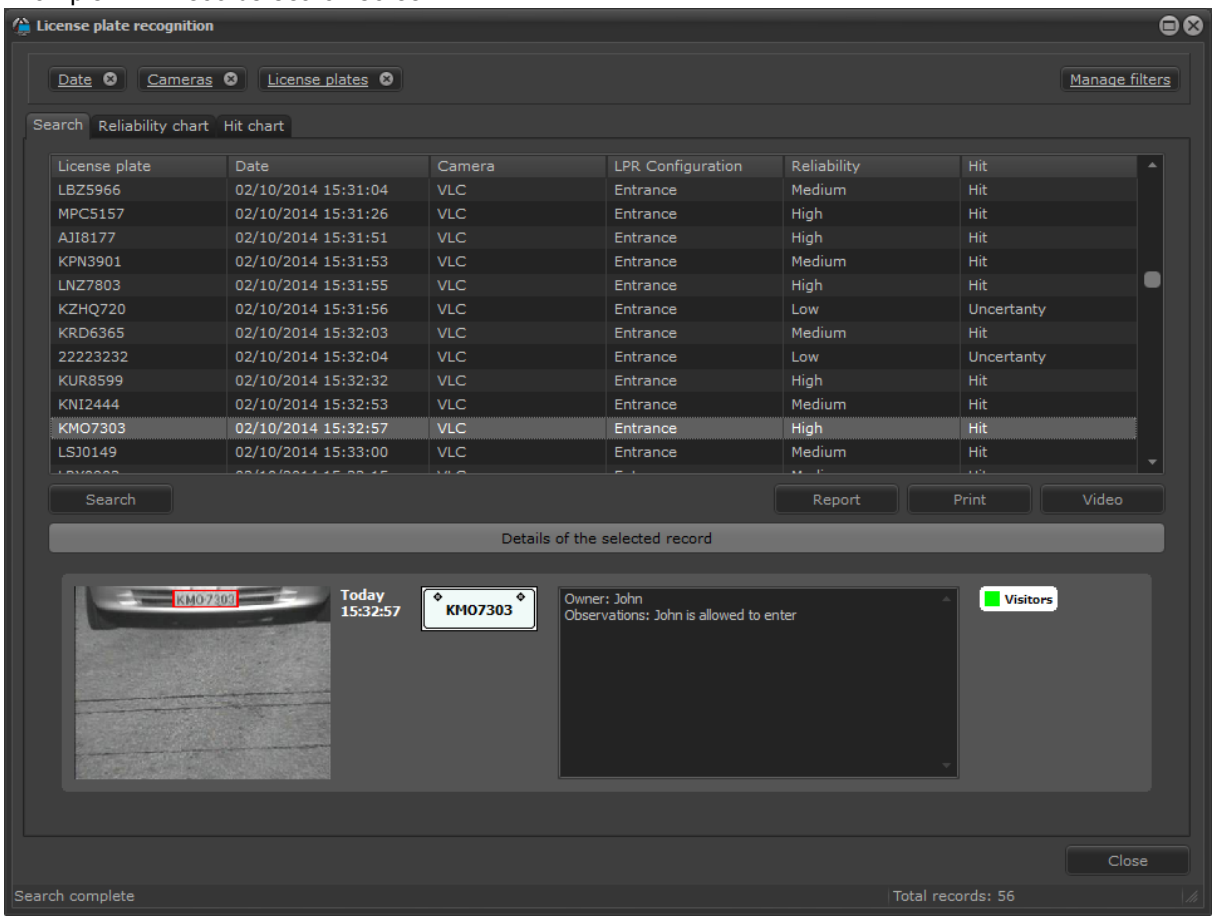
2.1.13 New operational features and improvements

2.1.13.1 New search screens

The record search screens in surveillance client received a major update in its design.

The new search screens for analytics, LPR and events are now more intuitive and has a new way to manage the filters by way of a top bar of filters.

Example: LPR records search screen


License plate recognition
Date
Cameras
License plates
Manage filters
Search
Reliability chart
Hit chart
License plate | Date | Camera | LPR Configuration | Reliability | Hit
LBZ5966 | 02/10/2014 15:31:04 | VLC | Entrance | Medium | Hit
MPC5157 | 02/10/2014 15:31:26 | VLC | Entrance | High | Hit
AJI8177 | 02/10/2014 15:31:51 | VLC | Entrance | High | Hit
KPN3901 | 02/10/2014 15:31:53 | VLC | Entrance | Medium | Hit
LNZ7803 | 02/10/2014 15:31:55 | VLC | Entrance | High | Hit
KZHQ720 | 02/10/2014 15:31:56 | VLC | Entrance | Low | Uncertanty
KRD6365 | 02/10/2014 15:32:03 | VLC | Entrance | Medium | Hit
22223232 | 02/10/2014 15:32:04 | VLC | Entrance | Low | Uncertanty
KUR8599 | 02/10/2014 15:32:32 | VLC | Entrance | High | Hit
KNI2444 | 02/10/2014 15:32:53 | VLC | Entrance | Medium | Hit
KMO7303 | 02/10/2014 15:32:57 | VLC | Entrance | High | Hit
LSJ0149 | 02/10/2014 15:33:00 | VLC | Entrance | Medium | Hit
Search
Report
Print
Video
Details of the selected record
Today 15:32:57
KMO7303
Owner: John
Observations: John is allowed to enter
Visitors
Close
Search complete
Total records: 56

2.1.13.2 New options to jump the video in playback

The media player now allows more options for jumping the video:

- Jump by time: Existing option, jump the video by the X amount of time
- Frame by frame: Allows frame by frame playback, jumping to next or prior frame (Video must be paused)
- Bookmark: Jump to next or prior bookmark

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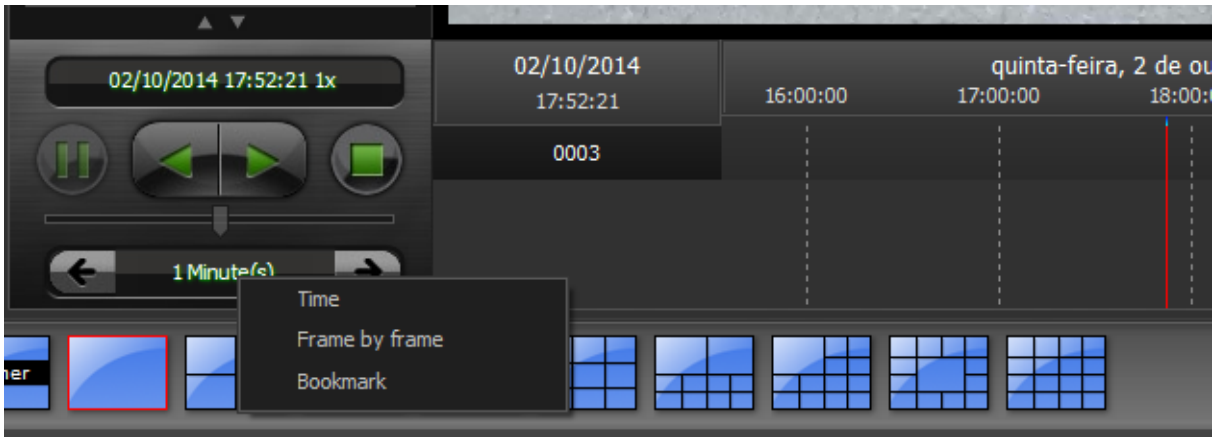
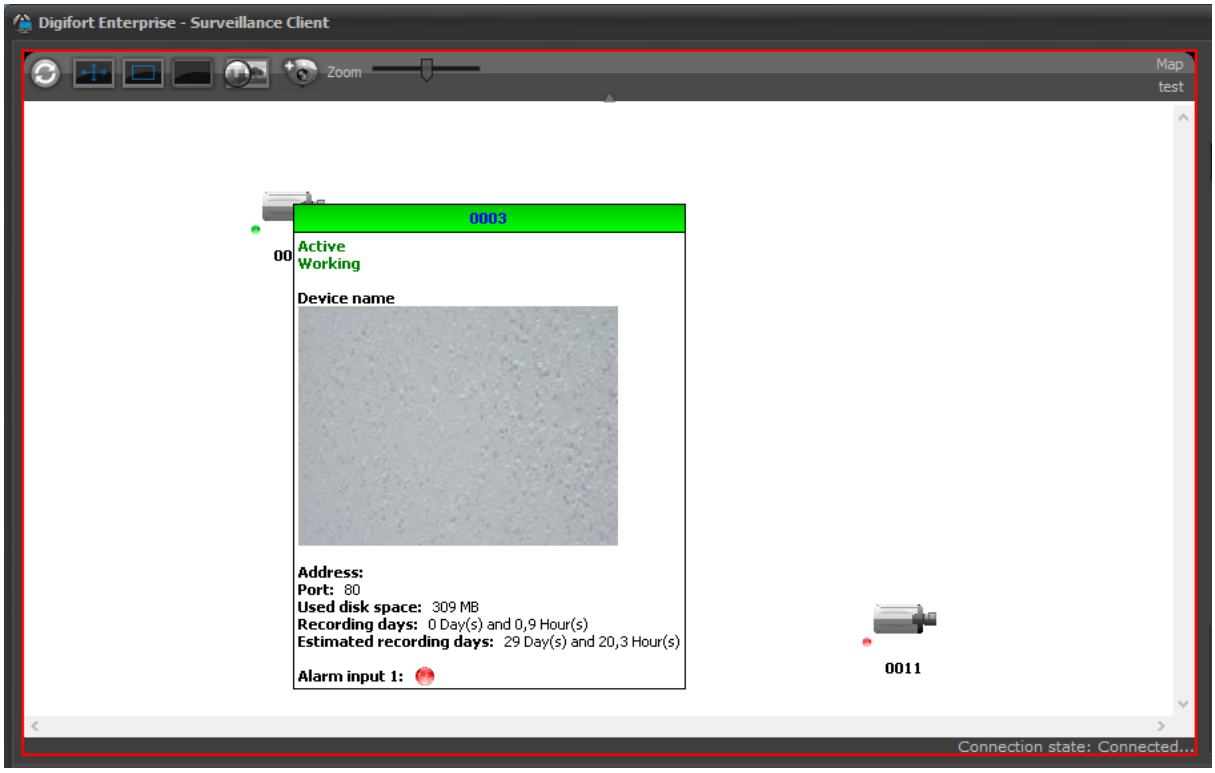


2.1.13.3 Preview of cameras in maps

Added a new feature to provide a preview of cameras inside synoptic maps. To view the camera preview just keep the mouse over the camera and the preview will be appear next to the camera information:



2.1.13.4 New audio output control

The audio output control, in surveillance client, now allows the uninterrupted sending of audio by double clicking on the speak button:

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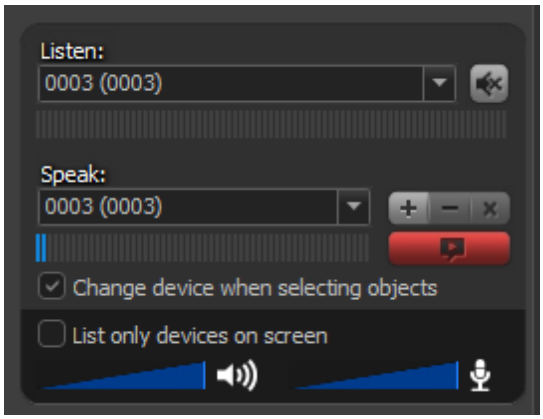

The button will turn red, indicating that the system is now sending audio to the selected device or group.

2.1.13.5 Alarm popup

2.1.13.5.1 Fast playback on alarm popup

The alarm popup from surveillance client now allows fast video playback from the event by just clicking the Playback button

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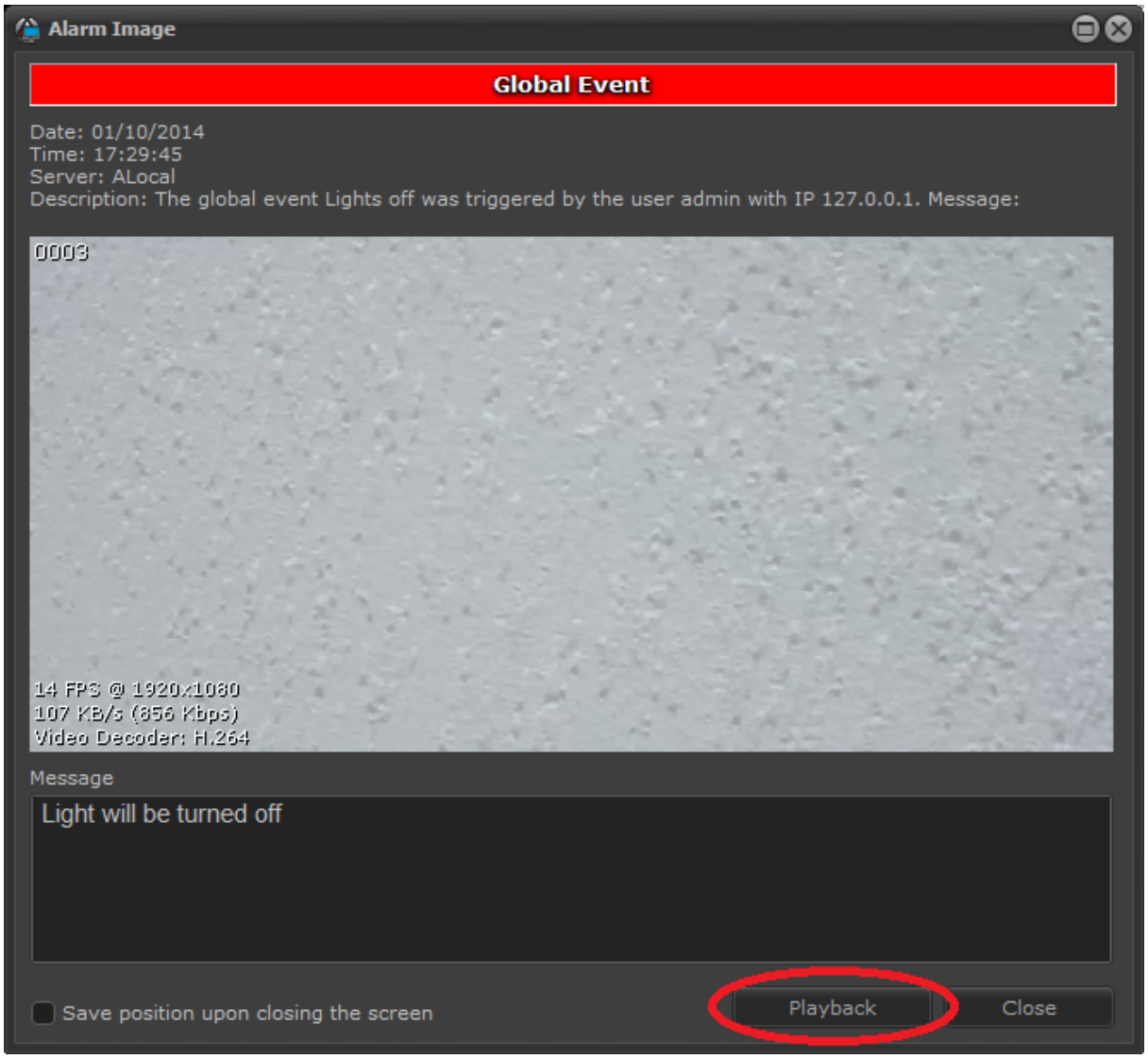
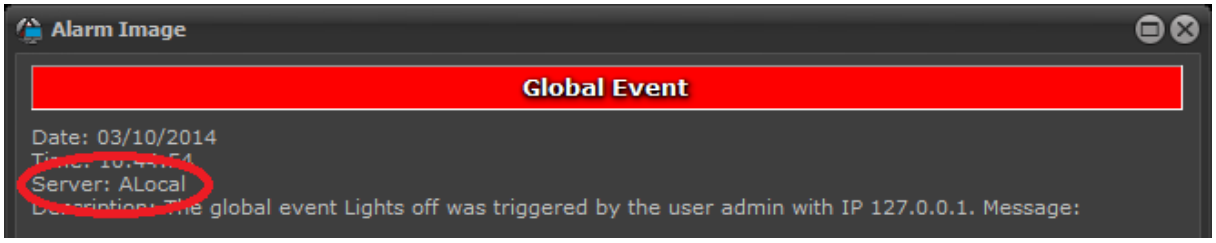


2.1.13.5.2 New information in alarm popup

The name of the server generating the alarm will also be displayed in the popup:



2.1.13.6 Monitor and Server filtering

The surveillance client now allows filtering the list of monitors and servers, as it already allowed the filtering of objects from objects list:

Monitor filtering:

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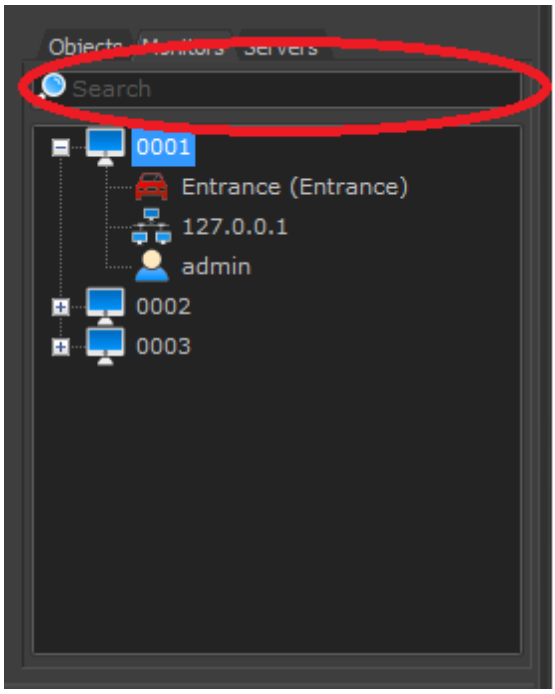
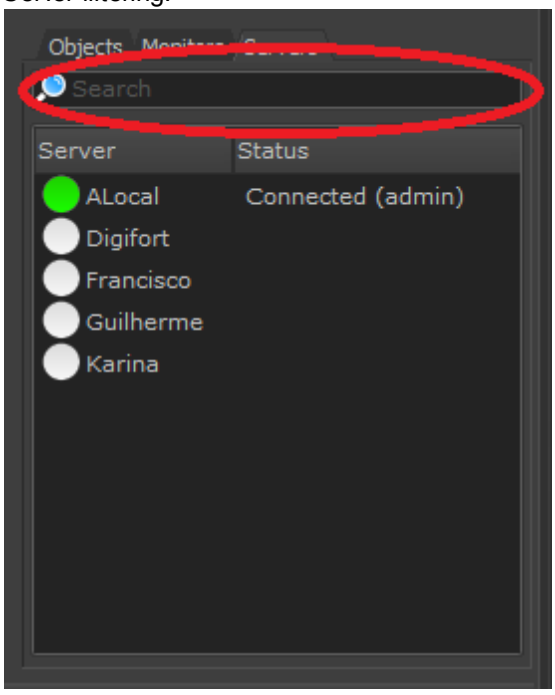


Server filtering:



2.1.13.7 Server filter in search screens

A new filter was added to all search screens of surveillance client (LPR, Analytics, Event and Bookmark records). This new filter will allow the system to perform the search only for the selected servers (In case the client is connected to multiple servers):

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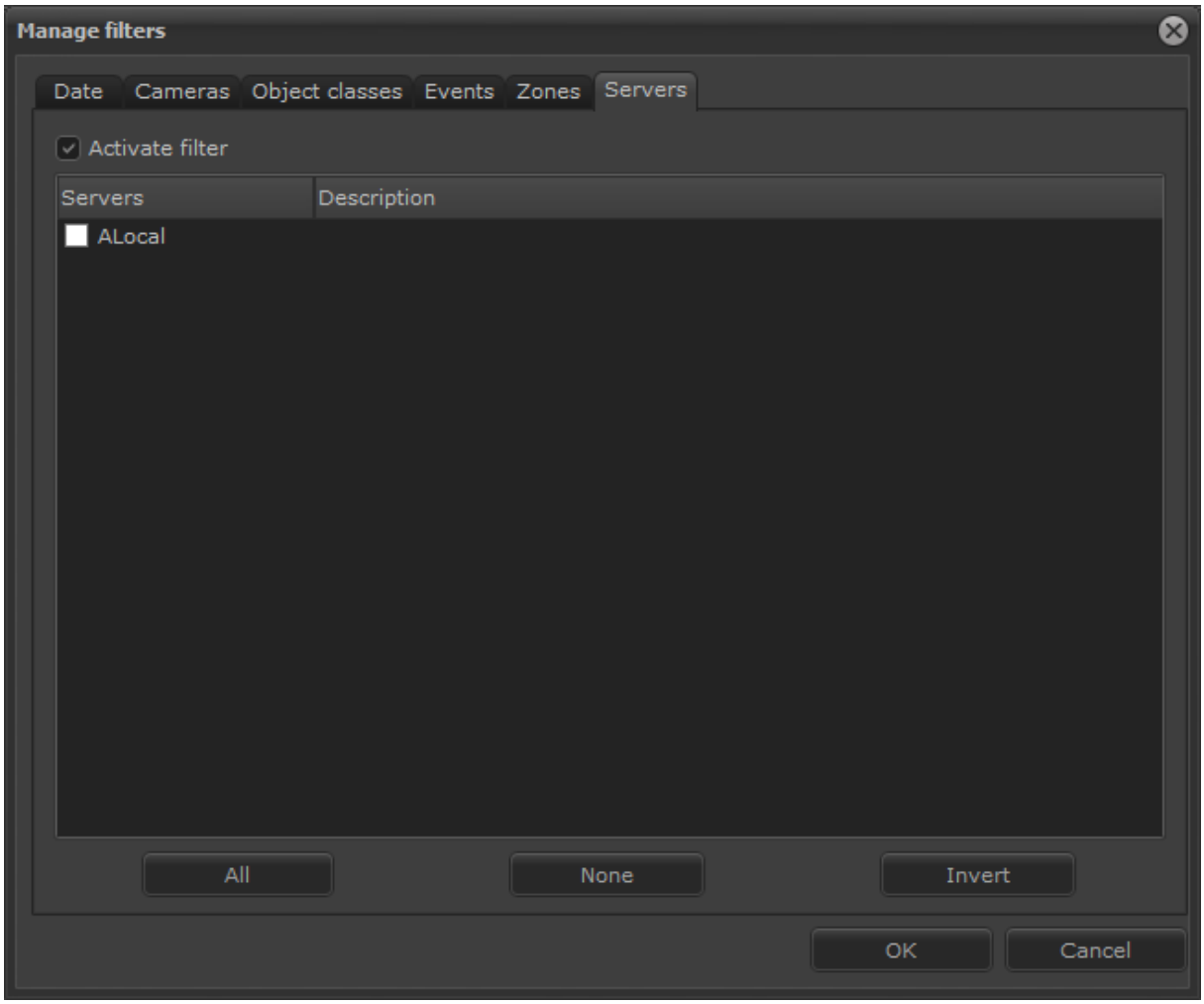

2.1.13.8 PTZ usage information

The system now shows, in surveillance client, the record of the last user that has moved a camera using PTZ controls.

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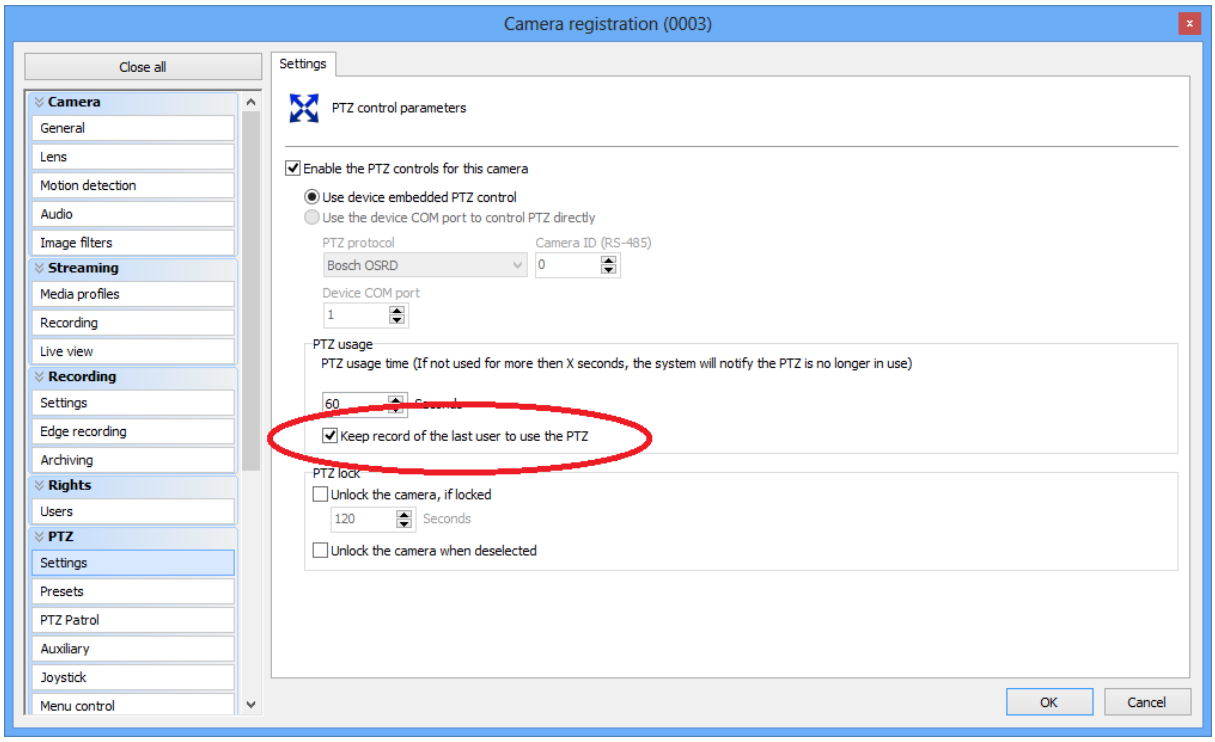
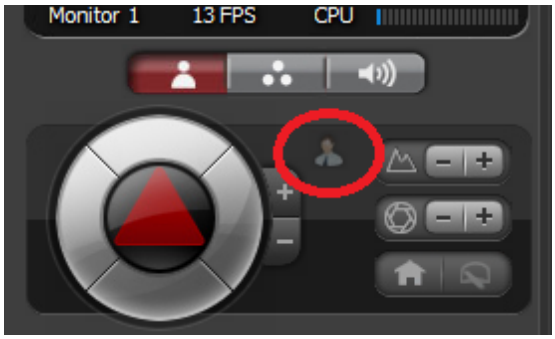
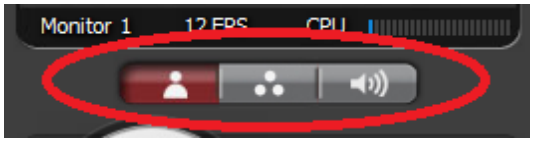


The icon of PTZ usage in surveillance client controls will become semi-transparent, indicating that there is nobody else using the controls and will inform the username and the IP of the station used to move the camera. To get that information the operator just have to hold the mouse pointer over the icon.



2.1.13.9 Remember the last selected option

The surveillance client will not remember the last selected option in the tool bar (Independent for each motion) since the last time the system was used:



2.1.13.10 Auto-fill data in the exporting

Now in the video exporting, the company name and the operator name will be auto-filled by the system.

The company name must be pre-configured in the system through administration client:

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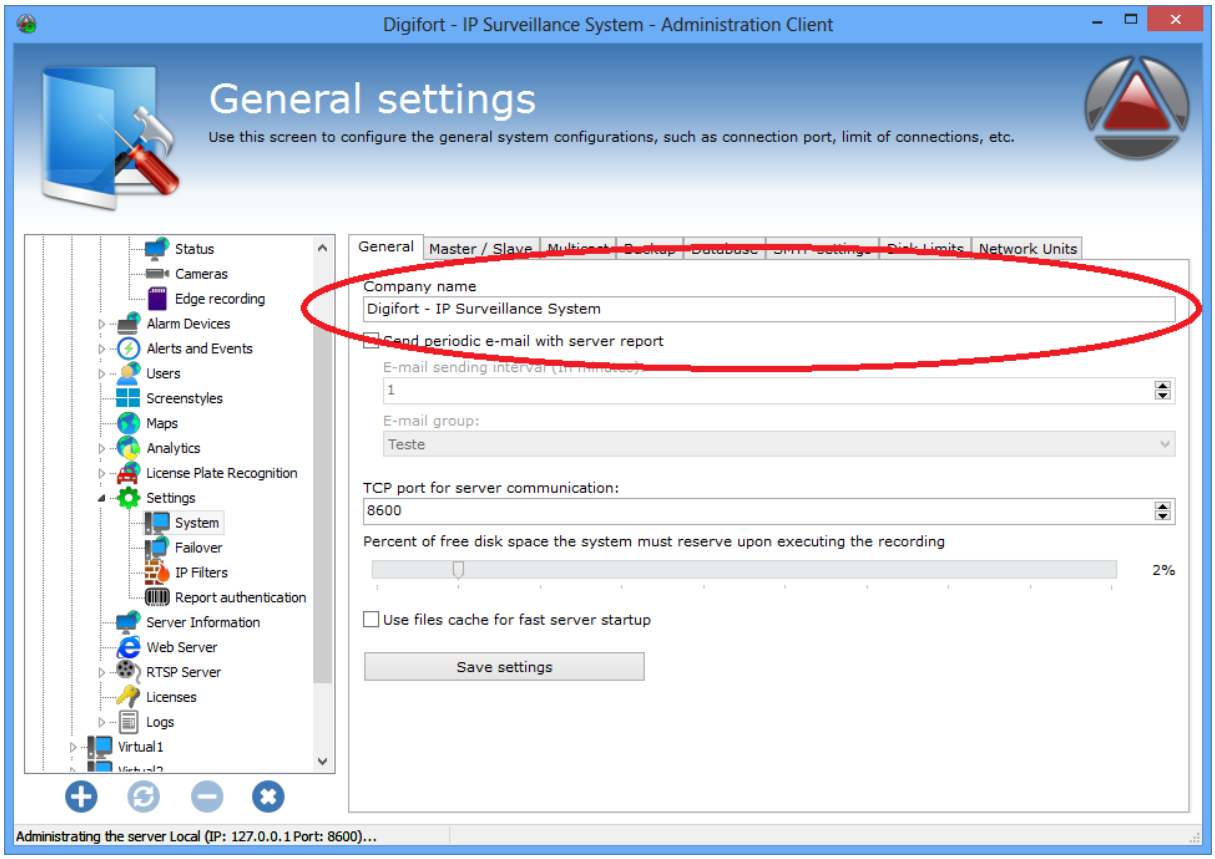

The exporting info will be auto-filled, speeding up the operation:

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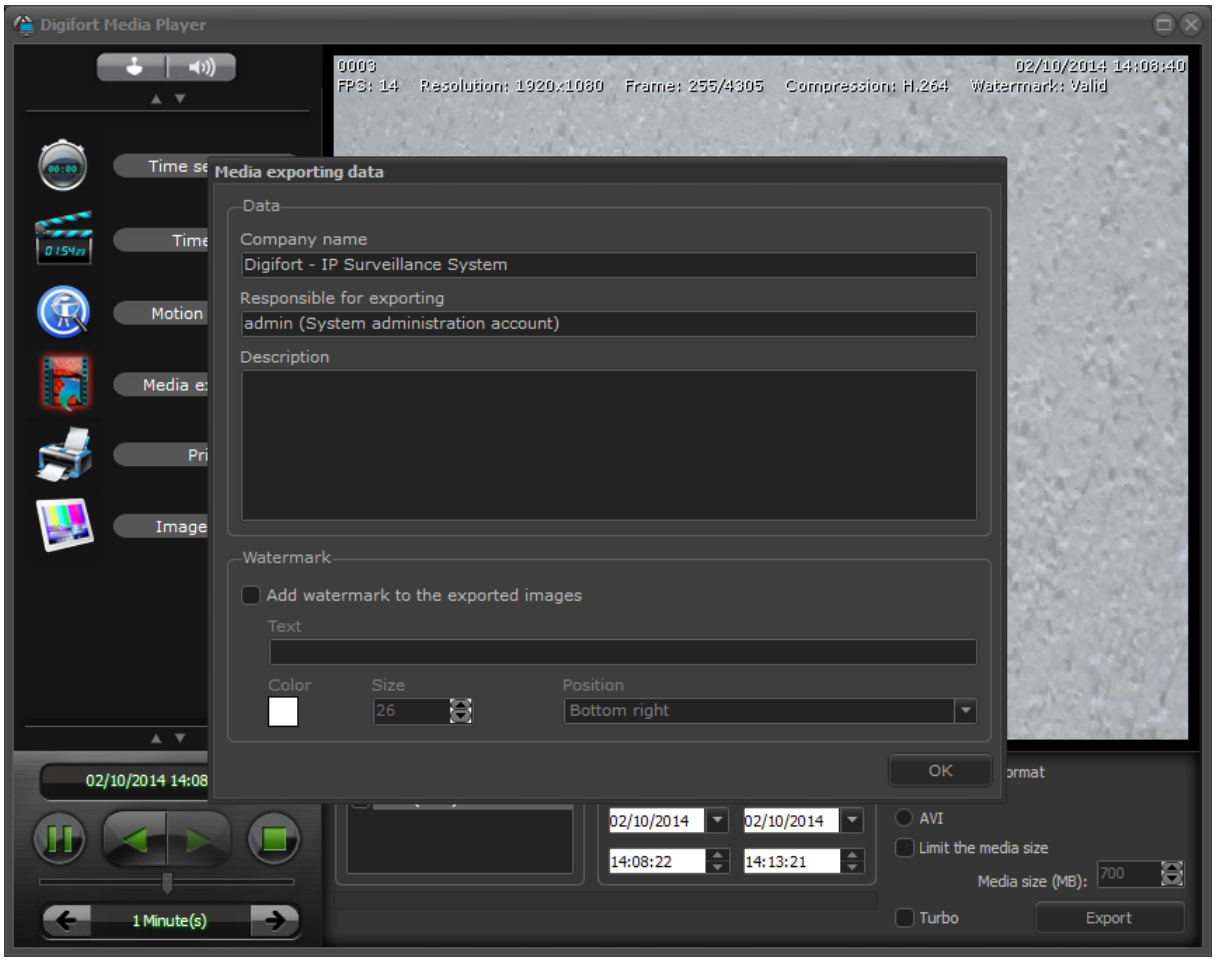

2.1.13.11 New options for AVI Exporting

The system now provides a few new options for AVI exporting:

- Activate / Deactivate time synchronization
- Activate / Deactivate audio exporting

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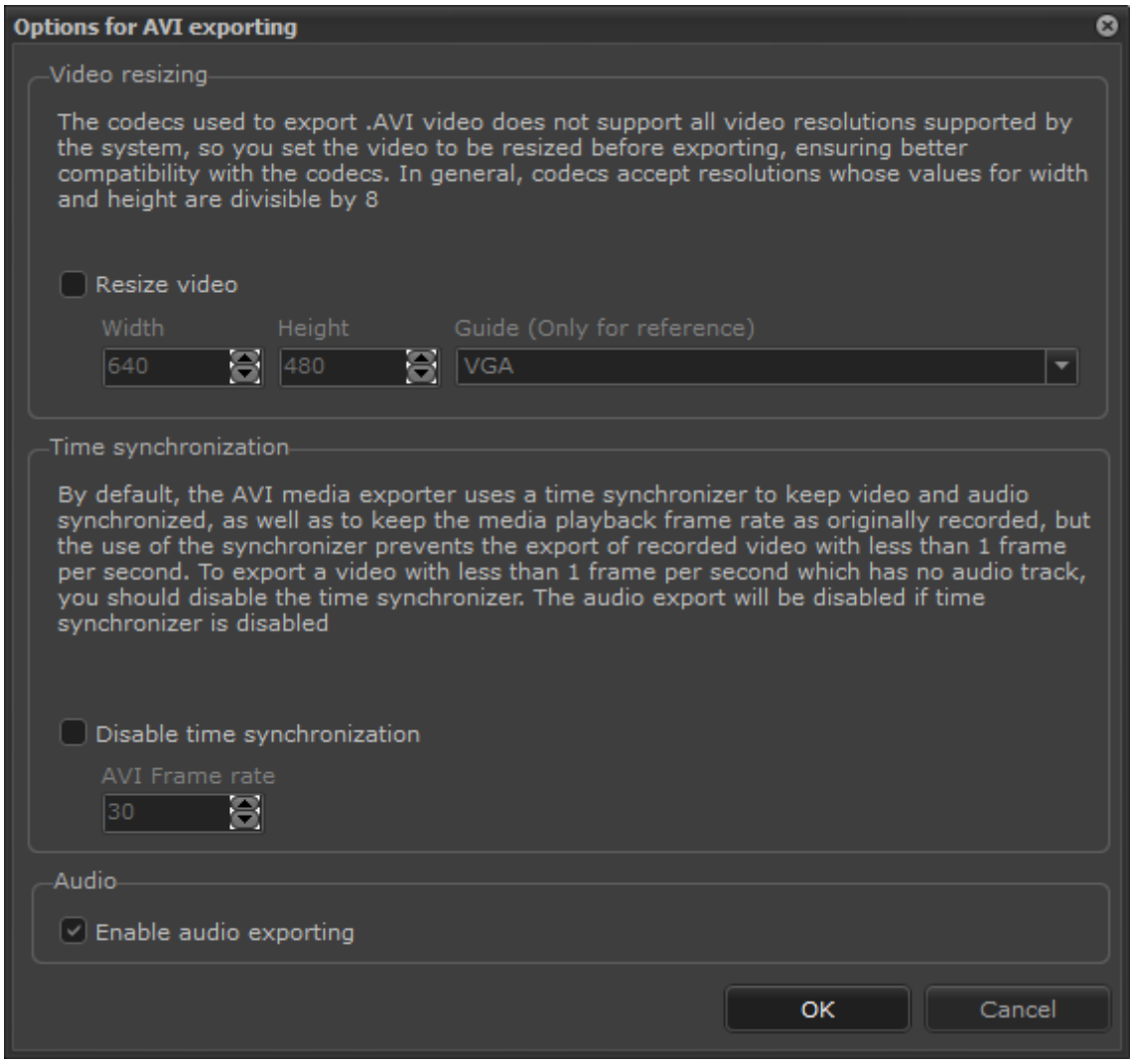
Options for AVI exporting
Video resizing
The codecs used to export .AVI video does not support all video resolutions supported by the system, so you set the video to be resized before exporting, ensuring better compatibility with the codecs. In general, codecs accept resolutions whose values for width and height are divisible by 8
Resize video
Width
Height
Guide (Only for reference)
640
480
VGA
Time synchronization
By default, the AVI media exporter uses a time synchronizer to keep video and audio synchronized, as well as to keep the media playback frame rate as originally recorded, but the use of the synchronizer prevents the export of recorded video with less than 1 frame per second. To export a video with less than 1 frame per second which has no audio track, you should disable the time synchronizer. The audio export will be disabled if time synchronizer is disabled
Disable time synchronization
AVI Frame rate
30
Audio
Enable audio exporting
OK
Cancel

2.1.13.12 Information layer on exported images

The information such as camera and date / time of an image will now be rescaled according to the image resolution. Previously the size of that information was fixed, which hindered its view in high resolution images:

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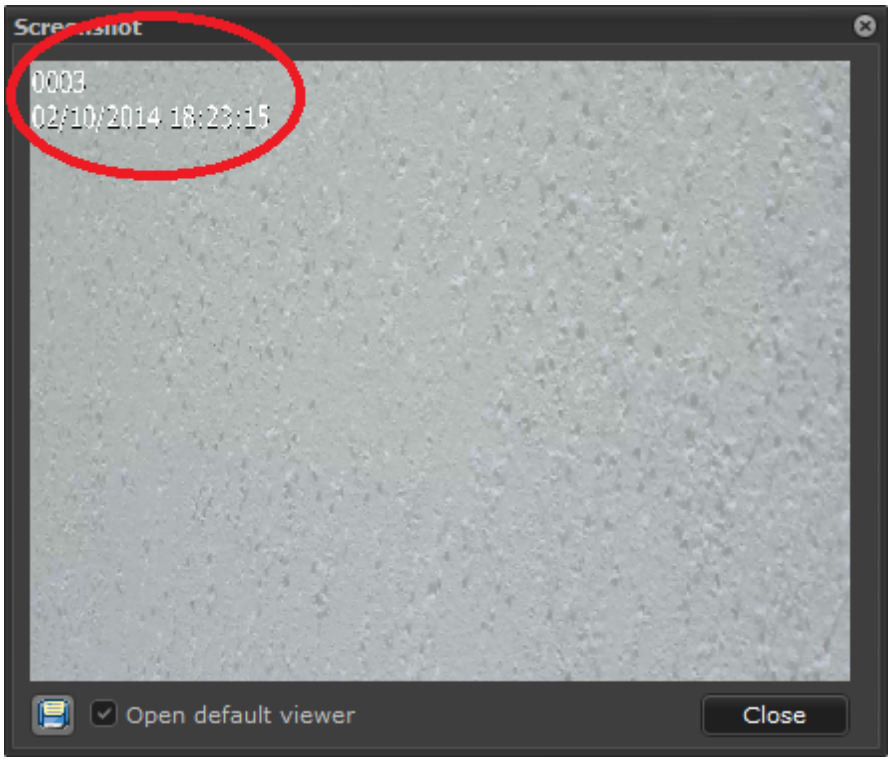
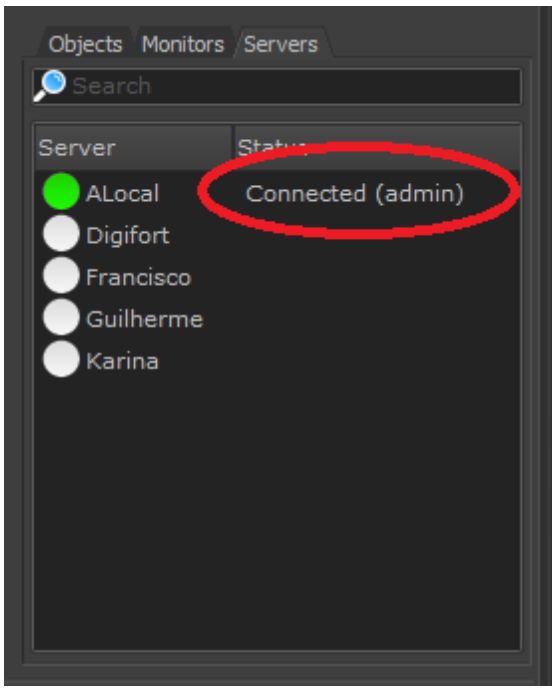


2.1.13.13 Show logged user in the client

The surveillance client will now show the name of the user that is connected to each server, in the Server tab:



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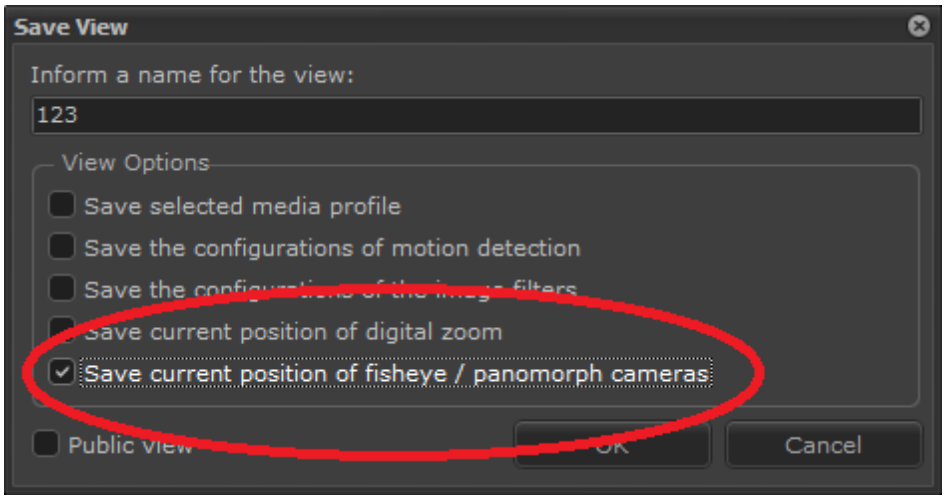
2.1.13.14 Automatically open the default viewer when saving snapshots

The system will now automatically open the default image viewer when saving snapshots using the surveillance client:

2.1.13.15 Save current position for fisheye / panomorph lenses

The system now allows saving the current position of fisheye / panomorph dewarping in the views:



2.1.13.16 Overlay in video playback

The media player will now allow the overlay title bar (Black bar) to be hidden if the configuration to not show the camera title is activated in surveillance client settings. This allows the viewing of the areas that would otherwise be covered by the title bar:

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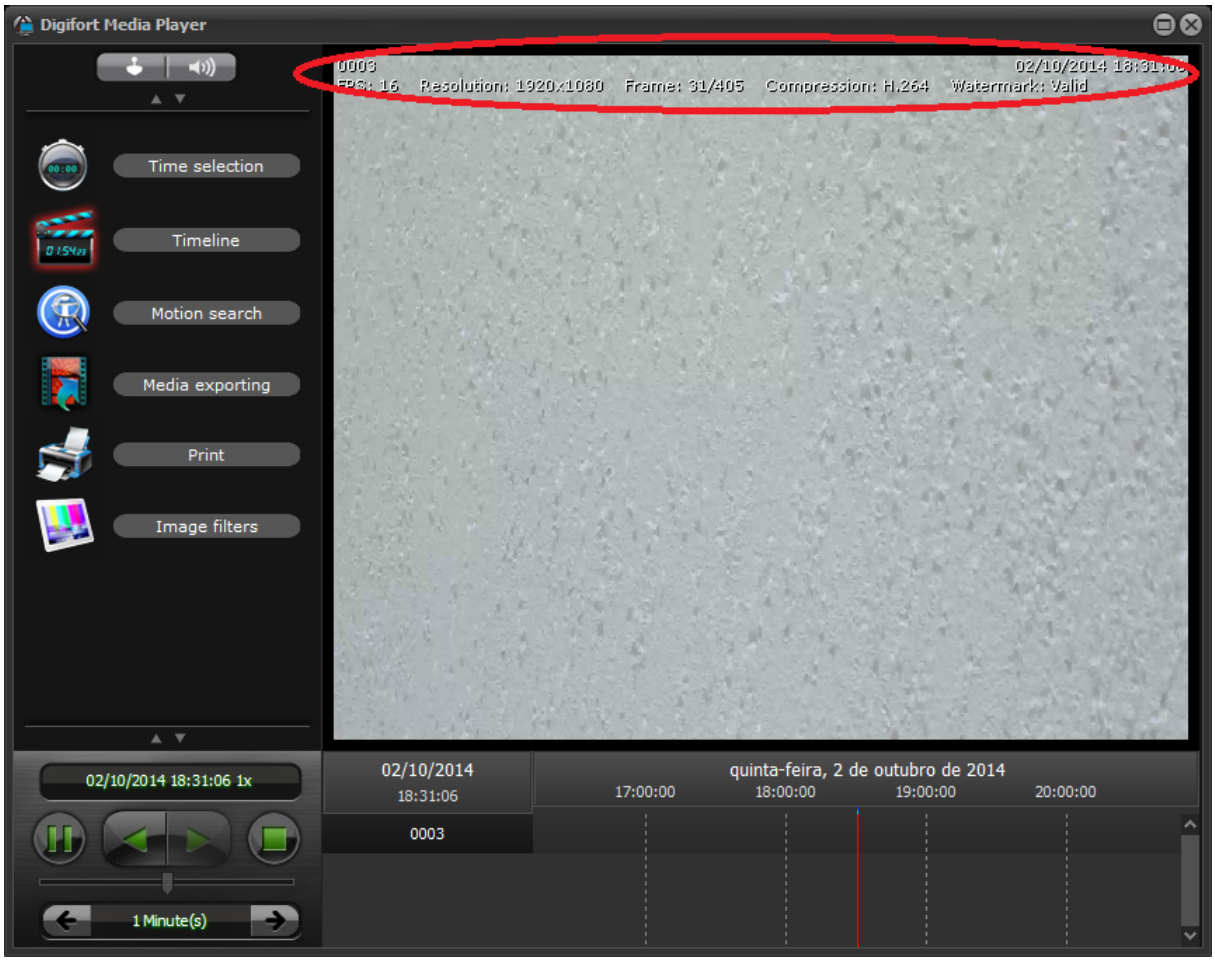

2.1.13.17 Events playback

In the surveillance client it is now possible to request the recordings of an event through the search screens for analytics, LPR, events and through the event popup window. The video playback will now start in the exact moment of the event (Previously the system had a configuration of X seconds prior and after the event) and it will open the media session with up to 1 hour of video before the event.

2.1.13.18 Audio playback buffer size settings

For surveillance client to playback audio from cameras (Live or playback), an internal buffer is used to provide a continuous and clean playback. The size of this buffer is now configurable in surveillance client settings:

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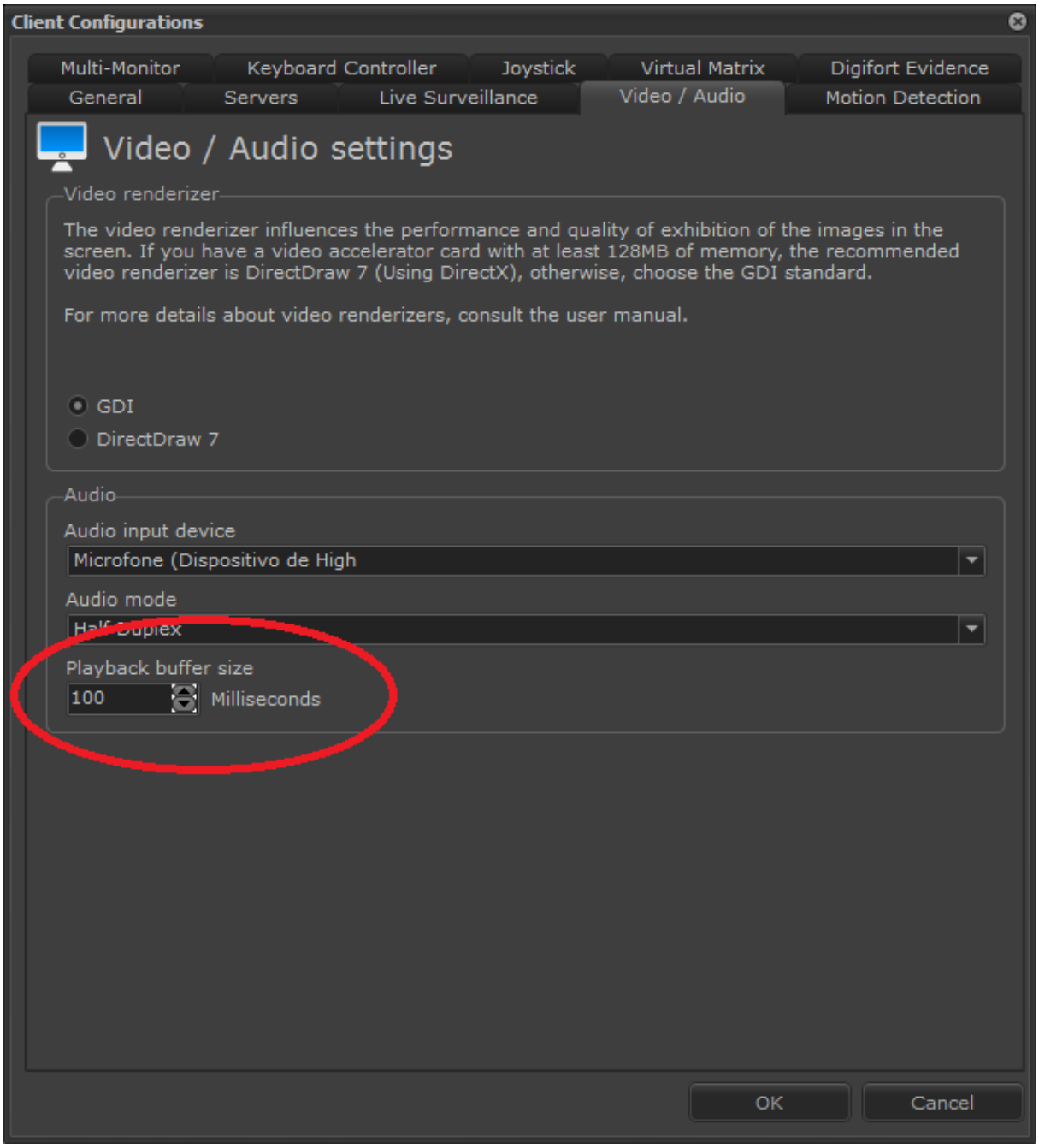

A bigger value will avoid audio breaks in case network connection is not stable, however it will add a slight desynchronization of audio and video.

2.1.13.19 Improvements on virtual matrix with Digifort Keyboard

Digifort Keyboard DGF-KB1000 lets you send cameras to the virtual matrix but the name of the monitors should be only numeric not containing leading zeroes (E.g.: "001", "002") because the keyboard will ignore them and will not find the monitor.

An improvement was made to allow naming the monitors with leading zeroes and the size of the input field for monitor number in the keyboard was increased from 3 to 9 digits.

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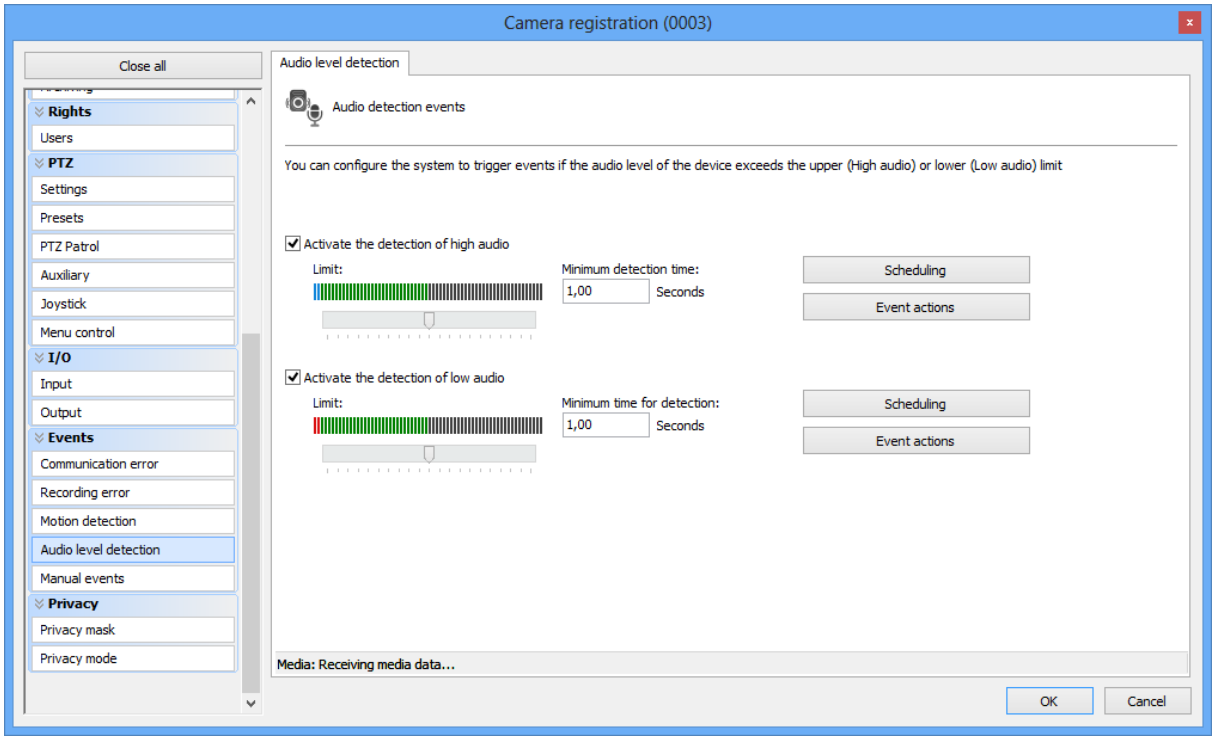
2.1.14 Events and actions

2.1.14.1 Audio level detection

The system can now analyse the audio level of a camera and trigger events in case the audio level is over or below a specified limit by for a minimum amount of time::



2.1.14.2 Improvements for communication failure event

The detection mechanism of communication failure has been changed. Previously the system checked every X seconds if the device was in operation and in case of failure an event was generated, however this method of verification proved not very suitable since the event could be generated at any time.

The new verification method of communication failure will check how long the device is out of order, so the system will only generate the event of communication failure if the device remains out of order for more than X seconds. The system also provides the option to continue generating the event every X seconds while the device is offline, if the option is disabled, the system will generate the event only once.

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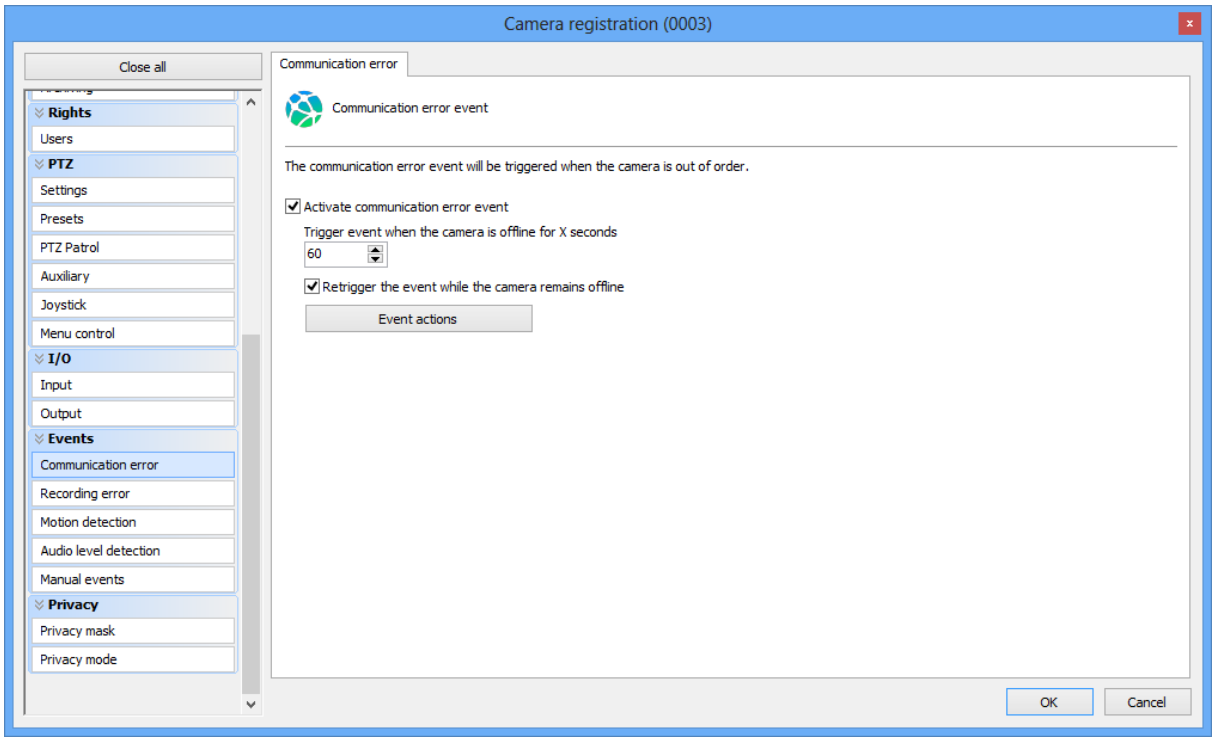

2.1.14.3 Event action to activate or deactivate objects

Added a new event action to activate and/or deactivate objects allowing a better control over the system objects. The object types that can be activated and deactivated by this action are: Cameras, Alarm Devices, LPR Configurations and Analytics Configurations.

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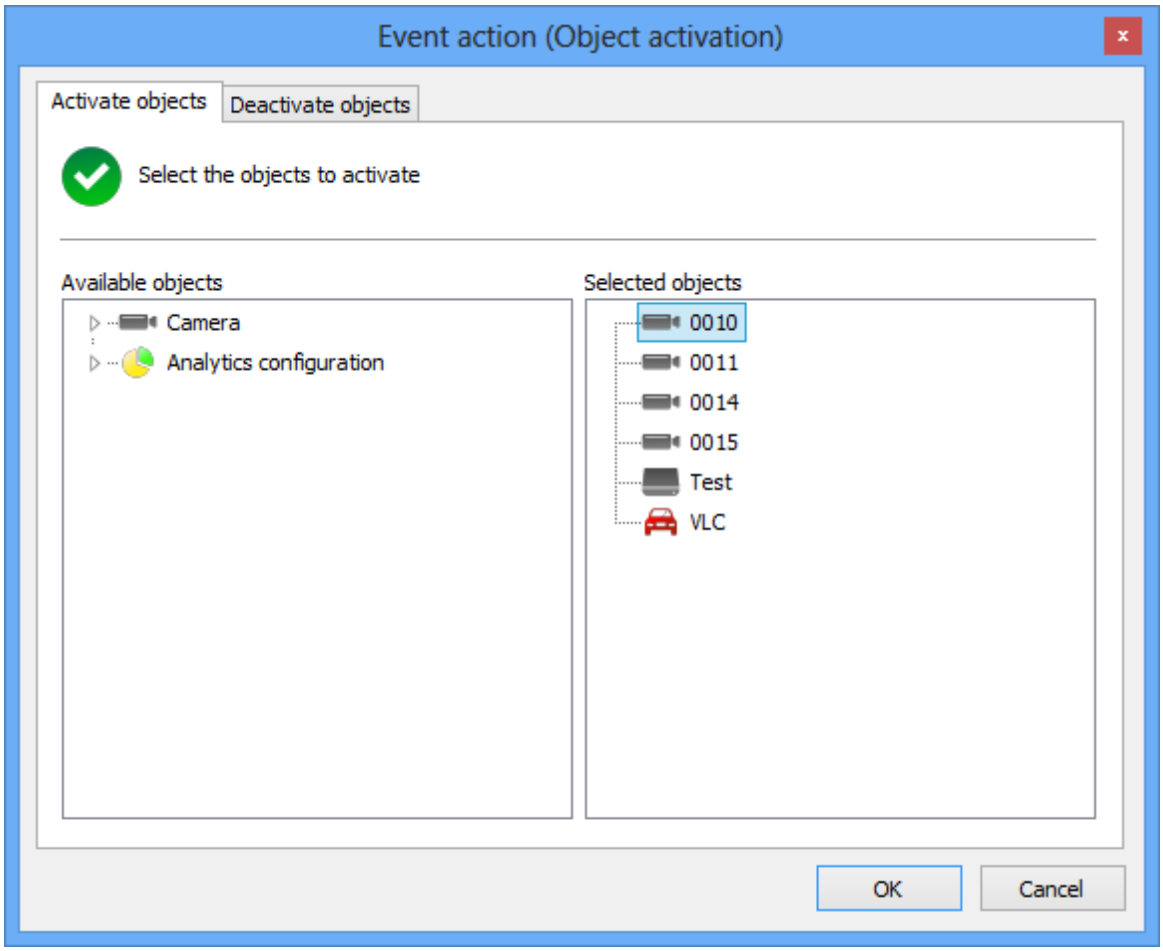

2.1.14.4 Show objects on events

In the ocurrence of events, the system now allows displaying different types of objects (Cameras, Maps, LPR Configuration, Analytics Configuration) in the alarm popup in surveillance client. Previously the system would only allow showing live cameras in the alarm popup:

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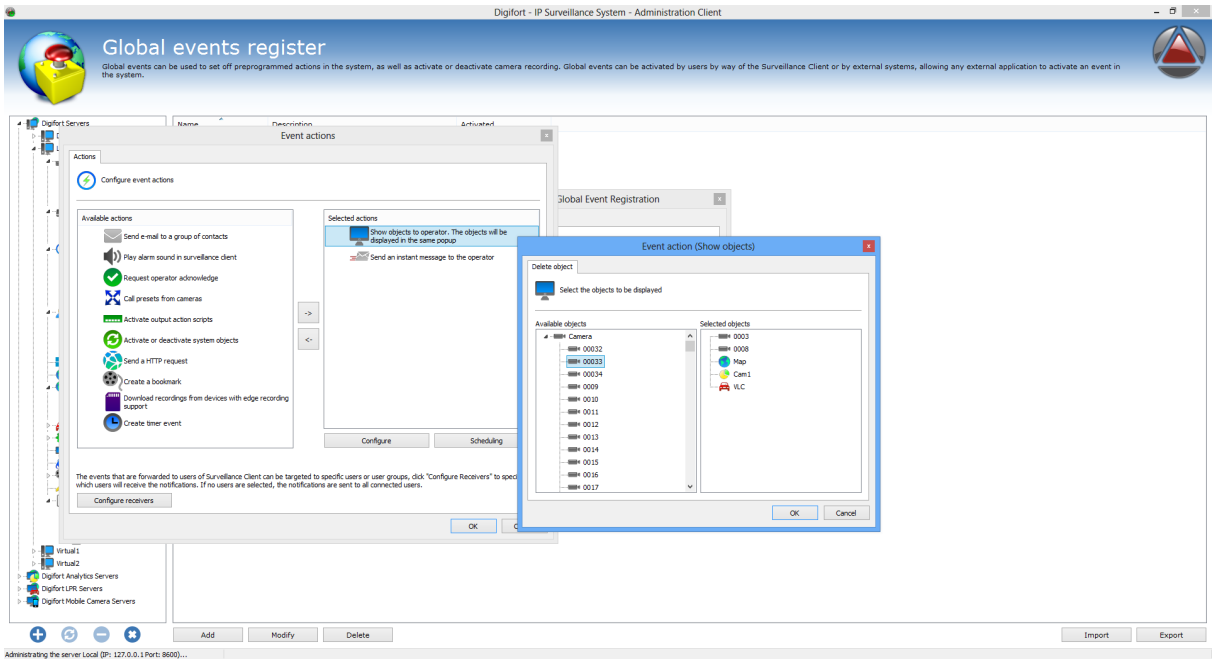

2.1.15 Audio archiving

The archiving system will now archive audio as well

2.1.16 Fisheye cameras

Added native support of dewarping for some camera manufacturers:

- ACTi
- Axis
- Oncam
- Samsung
- Vivotek

2.1.17 Image cropping

The system now provides a feature to crop the camera image. By using this feature, the system administrator can select an area of the image that he wishes to keep visible for the users:

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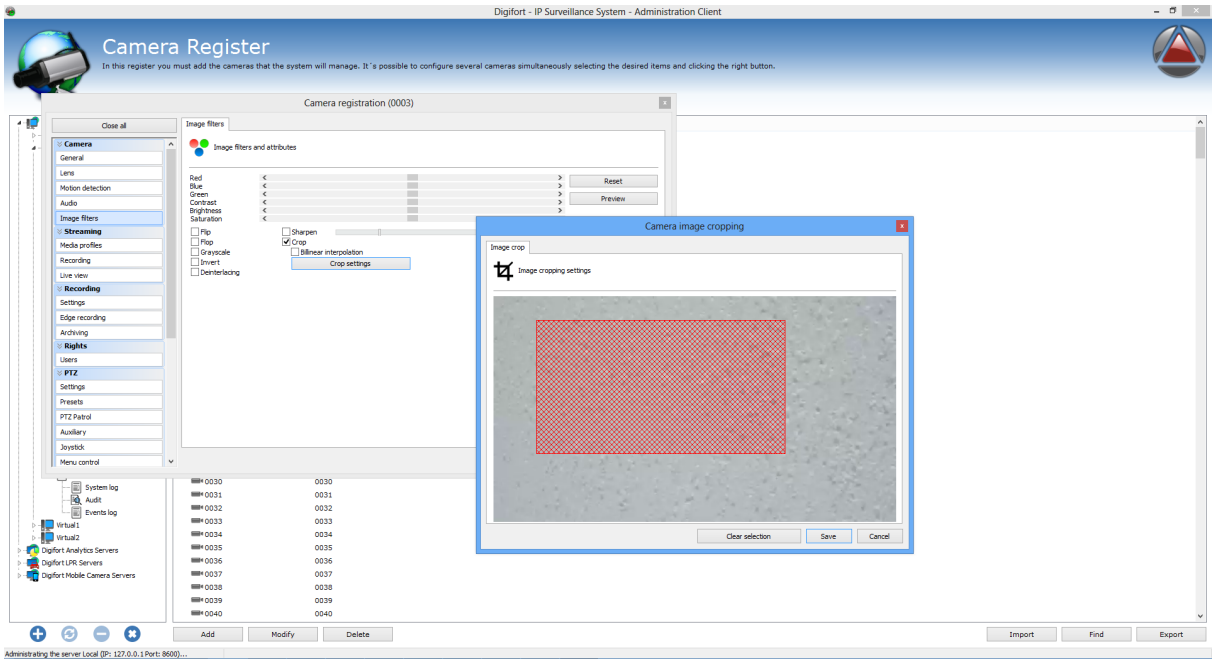

2.1.18 Disable Print-Screen

Added a new client feature to system users that allows the deactivation of the local Print-Screen button from surveillance client station of given users:

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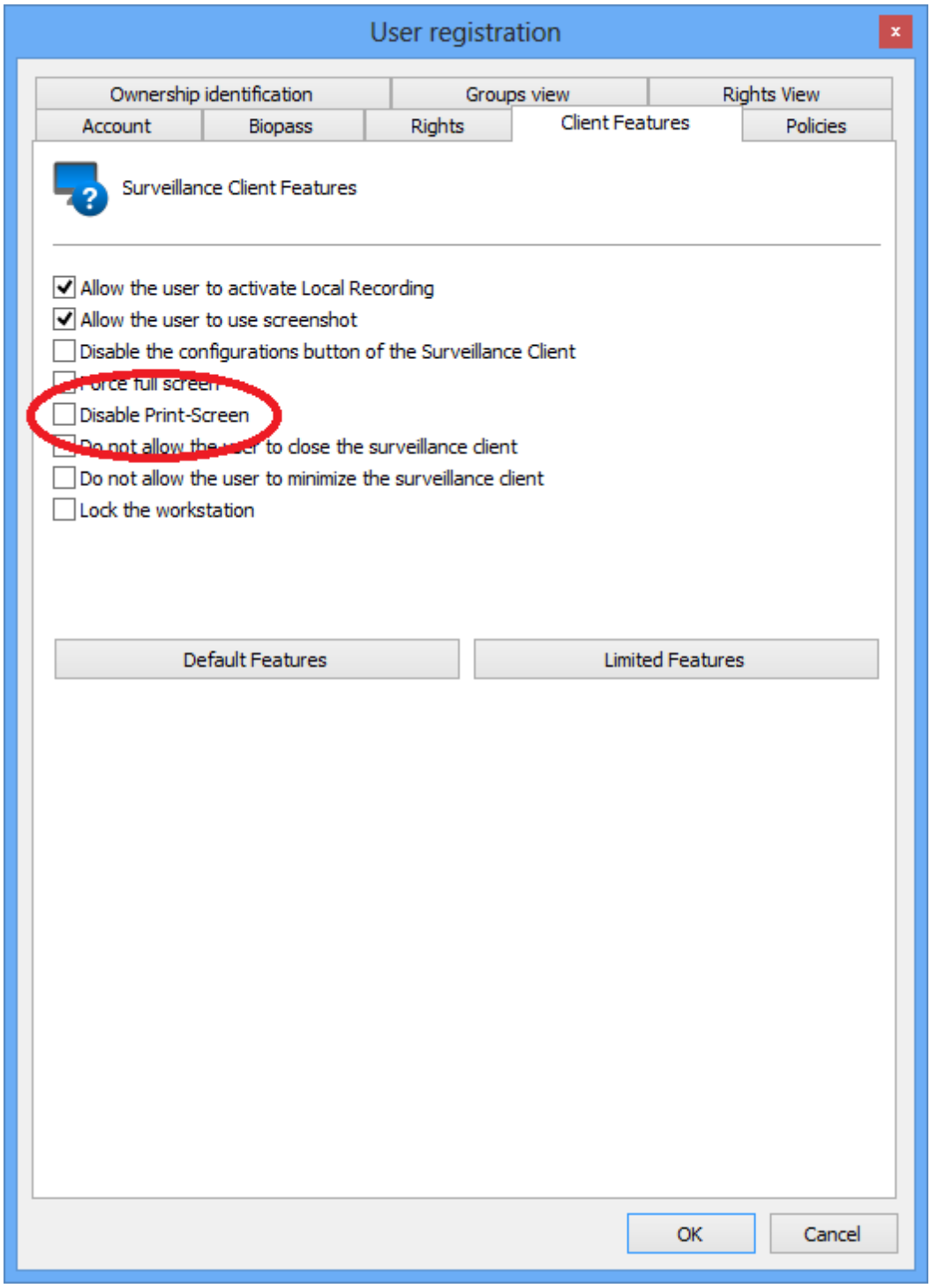

2.1.19 Mobile media profile

The system now allows the usage of different media profiles for viewing through mobile devices.

Access via mobile devices generates a processing load on the server because the system need to do transcoding of the video before sending it to the device. If the camera is set to record megapixel images, the transcoding process can be heavy, generating an unwanted processing load to the server. This new

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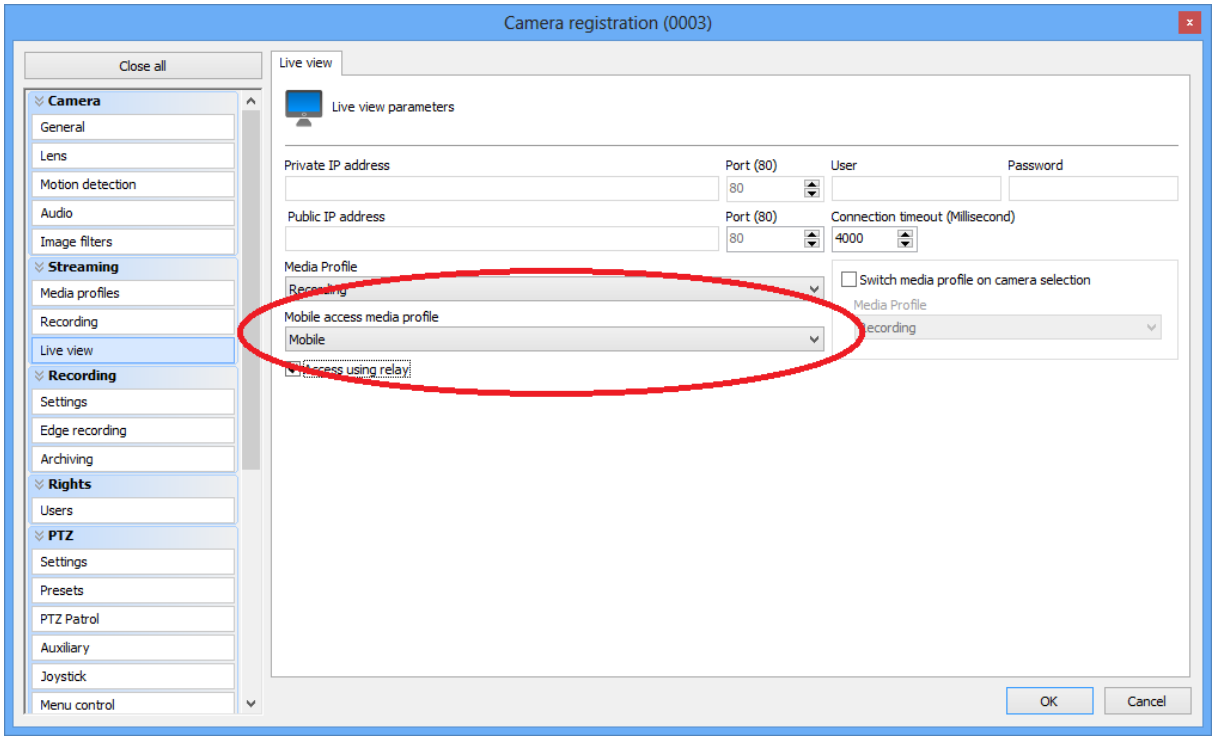
option will allow the administrator to select a media profile with lower resolution to perform transcoding, resulting in a low CPU usage.



2.1.20 Support for HTTPS/SSL

The integrated Web Server now has support for HTTPS and SSL:

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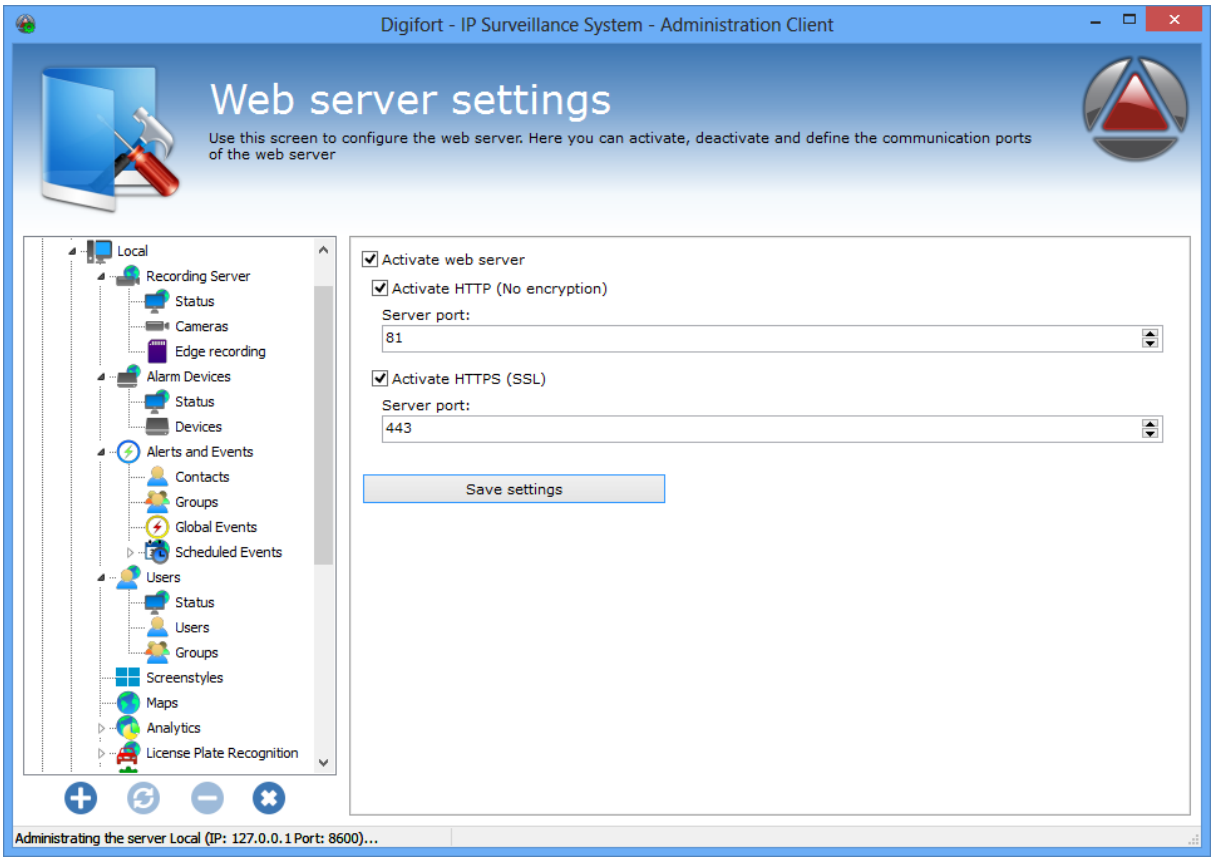

2.1.21 Improvements on recording profile change by motion detection

The feature to automatically change the recording profile by motion detection now uses the size of post alarm buffer to prevent a quick return to original profile when motion ceases

2.1.22 Selection of multicast network for relay

The system now allows the selection of a source network for sending images using multicast:

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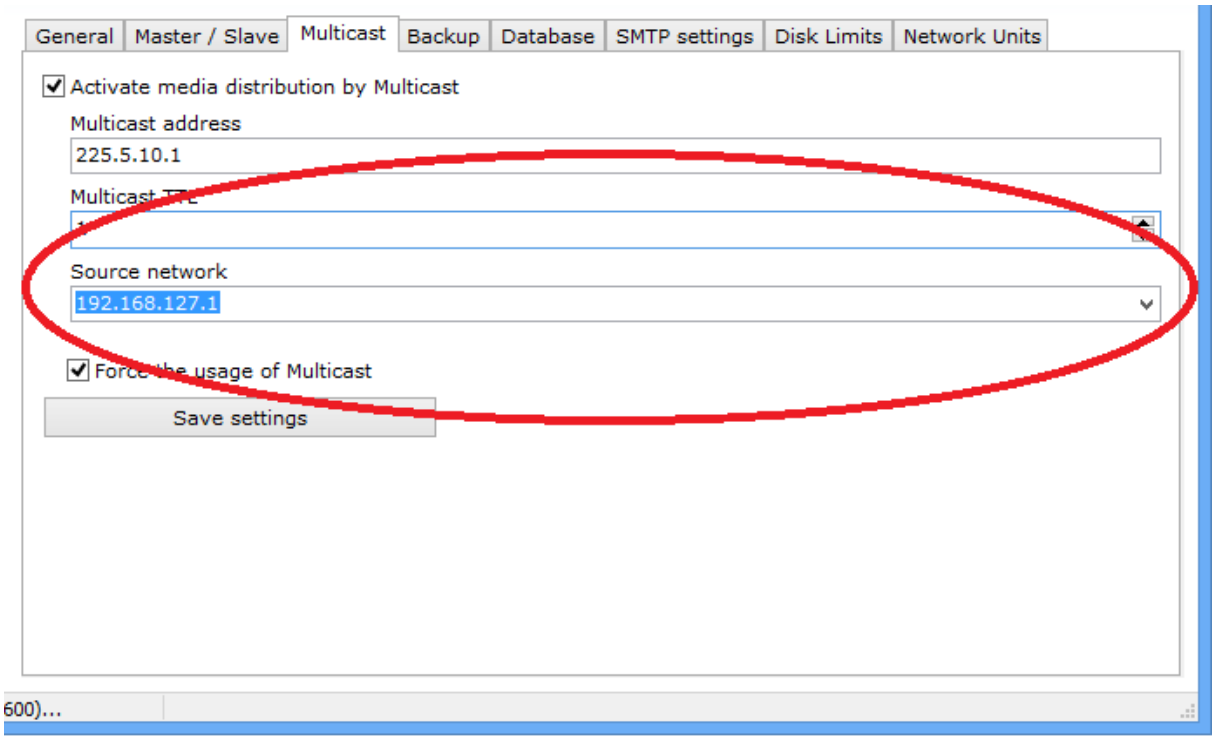

2.1.23 Analytics and LPR processing network

For processing analytics or LPR the system no longer requires the network name, instead of using the network name the administrator can specify the IP address of the processing server directly:

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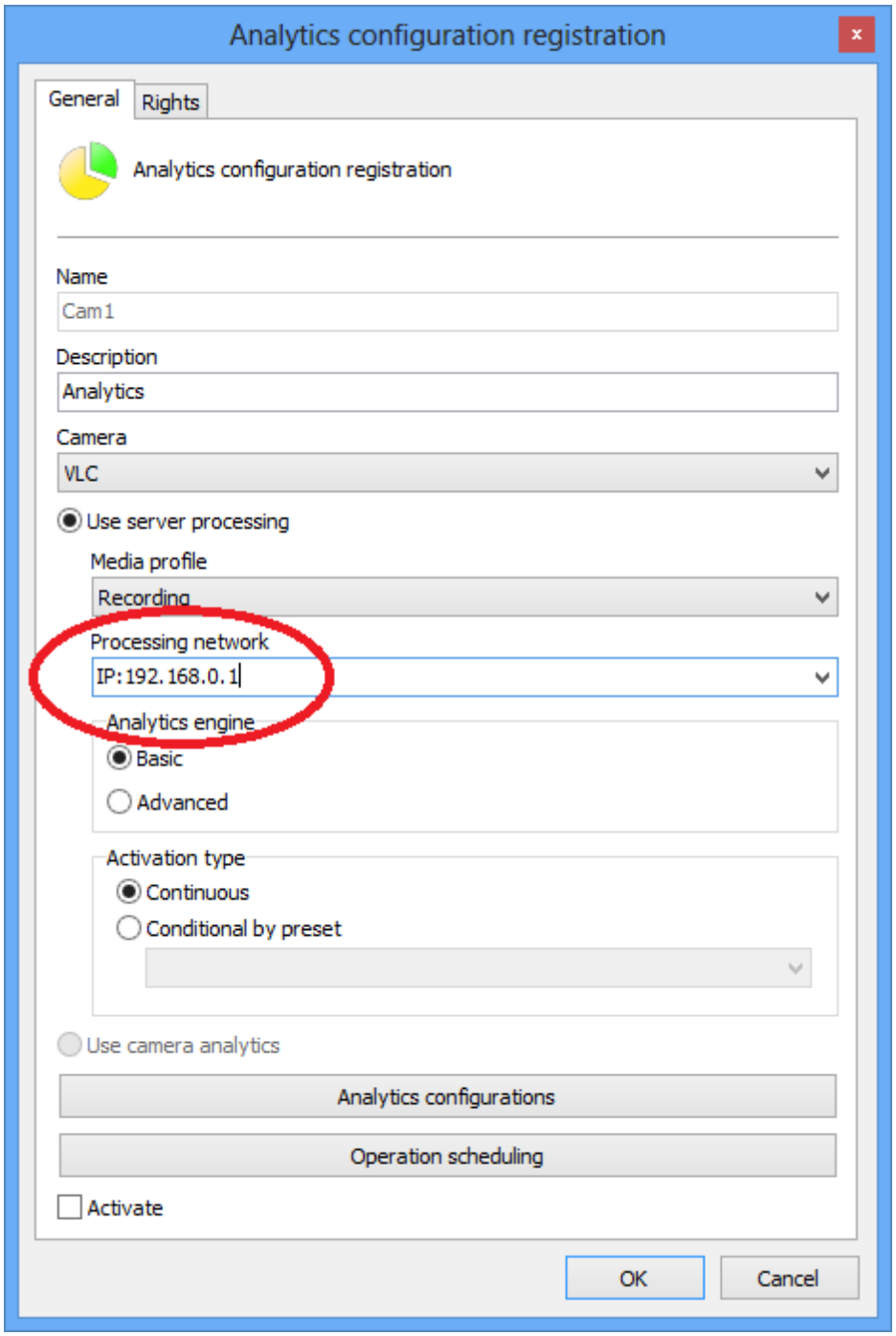

2.1.24 New image formats for maps

The synoptic map will now allow the use of images in many formats: JPEG, WMF, BMP, GIF and PNG.

2.1.25 Views are not lost anymore when server ID changes

The views, created by the system operators in surveillance client, stores the position of objects on the screen but these objects are always linked to the ID of the server to which they belong, so if the server ID is changed for some reason (New server, formatting the computer) the position of these objects is lost because the system can no longer locate it. An improvement was made to allow the system to locate

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the object by name only if the combination of name + ID is not found so the settings of the view will not be lost anymore, however it may have a little collateral effect where the system can load objects from another server if the client is connected to multiple servers and objects with the same name are registered in more than one server.

2.1.26 Encrypted passwords

- The passwords for alarm devices will now be stored with encryption
- The password for server access, stored in client computers (When using auto-login) will now be stored with encryption

2.1.27 Support for automation of the Surveillance Client

Added support for automating operations of the Surveillance Client through initialization scripts.

This first version will not support many different operations, only the configuration of servers, client options and automated playback.

The Surveillance Client can be opened through a pre-configured script file and will execute the script commands.

For more information on this feature please contact our support.

2.1.28 96DPI limitation

The surveillance and administration clients can now run on systems using DPI other than 96, but a warning message will be displayed at the opening of the client.

2.1.29 New features for Standard edition

The following pre-existent features in superior editions were added to Standard edition:

- Global Events - Limited to 4 registered events
- Scheduled Events - Limited to 2 registered events
- Virtual Matrix - Limited to 1 matrix station with up to 8 monitors (Connected to this station)
- Manual Events - Limited to 4 registered events per cameras per camera

2.1.30 New features for Professional edition

The following pre-existent Enterprise-only features were added to Professional edition:

- Archiving
- IP Filters
- Periodic server health report sent by e-mail

2.2 Device integration

2.2.1 Axis

- Added support for AreaZoom in Axis devices, allowing the camera to move to the selected area on screen

2.2.2 New supported media devices

3S Vision N1011
3S Vision N1012

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3S Vision N1031
3S Vision N1032
3S Vision N3011
3S Vision N3012
3S Vision N3031
3S Vision N3032
3S Vision N3073
3S Vision N3074
3S Vision N4011
3S Vision N4012
3S Vision N4013
3S Vision N5012
3S Vision N6015
3S Vision N6016
3S Vision N6031
3S Vision N6032
3S Vision N6034
3S Vision N6035
3S Vision N6036
3S Vision N6037
3S Vision N6038
3S Vision N6074
3S Vision N6075
3S Vision N6076
3S Vision N6077
3S Vision N6078
3S Vision N6079
3S Vision N6082
3S Vision N8011
3S Vision N8012
3S Vision N8031
3S Vision N8032
3S Vision N8072
3S Vision N9012
3S Vision N9017
3S Vision N9018
3S Vision N9032
3S Vision N9033
3S Vision N9034
3S Vision N9073
3S Vision N9074
ACTi B41
ACTi B55
ACTi B81
ACTi B96
ACTi D11
ACTi D12
ACTi D21
ACTi D22
ACTi D31
ACTi D32
ACTi D41
ACTi D42

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ACTi D51
ACTi D52
ACTi D54
ACTi D55
ACTi D62
ACTi D65
ACTi D71
ACTi D72
ACTi D81
ACTi D82
ACTi E11
ACTi E12
ACTi E21
ACTi E22
ACTi E23
ACTi E24
ACTi E25
ACTi E31
ACTi E32
ACTi E33
ACTi E41
ACTi E42
ACTi E43
ACTi E44
ACTi E45
ACTi E46
ACTi E51
ACTi E52
ACTi E53
ACTi E54
ACTi E61
ACTi E62
ACTi E63
ACTi E64
ACTi E65
ACTi E66
ACTi E67
ACTi E71
ACTi E72
ACTi E73
ACTi E74
ACTi E81
ACTi E82
ACTi E83
ACTi E85
ACTi E86
ACTi E91
ACTi E92
ACTi E94
ACTi E95
ACTi E96
ACTi I96
ACTi KCM-5611

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ACTi KCM-7911
AGNI CIR-L5130
AGNI MB-51820
AGNI MB-51W1
AGNI MB-51W2
AGNI MB-51W5
AGNI MB-51W6
AirLive BC-5010
AirLive BU-2015
AirLive BU-3025
AirLive BU-3026-IVS
AirLive BU-720
AirLive CU-720PIR
AirLive CW-720
AirLive DM-720
AirLive FE-200DM
AirLive IP-150CAM
AirLive IP-200PHD
AirLive MD-3025IVS
AirLive MD-720
AirLive OD-2025HD
AirLive OD-2025PHD
AirLive OD-2050HD
AirLive OD-2060HD
AirLive OD-325HD
AirLive OD-600HD
AirLive POE-100HD
AirLive POE-200HD
AirLive POE-250HD
AirLive POE-2600HD
AirLive POE-5010HD
AirLive SD-2020
AirLive WL-350HD
AirLive WN-150CAM
AirLive WN-200HD
AirLive WN-2600HD
Alive AL-3004S
Alive AL-4004HIB
Alive AL-4008HIB
Alive AL-4016HIB
Alive AL-5008HD
American Dynamics ADCI625P120
American Dynamics ADCIPE3712OCN
American Dynamics Illustra Flex
A-MTK AH2806T
Arecont AV10115DN-AI-v1
Arecont AV10115DN-v1
Arecont AV10115v1
Arecont AV1115
Arecont AV20185CO
Arecont AV20185CO-HB
Arecont AV20185DN-HB
Arecont AV20365CO

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Arecont AV20365CO-HB
Arecont AV20365DN
Arecont AV20365DN-HB
Arecont AV2115DN-AI-v1
Arecont AV2115DN-v1
Arecont AV2115-v1
Arecont AV2255AM-A
Arecont AV2255AM-AH
Arecont AV2255AM-H
Arecont AV2255AMIR
Arecont AV2255AMIR-A
Arecont AV2255AMIR-AH
Arecont AV2255AMIR-H
Arecont AV2256PM
Arecont AV2256PMIR
Arecont AV2455DN-F
Arecont AV2455DN-S
Arecont AV2456DN-F
Arecont AV2456DN-S
Arecont AV3146DN-04-D
Arecont AV3146DN-04-D-LG
Arecont AV3146DN-04-W
Arecont AV3146DN-3310-D
Arecont AV3146DN-3310-DA
Arecont AV3146DN-3310-DA-LG
Arecont AV3146DN-3310-D-LG
Arecont AV3146DN-3310-W
Arecont AV3146DN-3310-WA
Arecont AV5125DNv1-x
Arecont AV5125IRv1-x
Arecont AV8185CO
Arecont AV8185CO-HB
Arecont AV8185DN
Arecont AV8185DN-HB
Arecont AV8365CO
Arecont AV8365CO-HB
Arecont AV8365DN
Arecont AV8365DN-HB
Arecont D4F-AV2115DNv1-04
Arecont D4F-AV2115DNv1-3312
Arecont D4F-AV2115v1-04
Arecont D4F-AV2115v1-3312
Arecont D4S-AV2115DNv1-04
Arecont D4S-AV2115DNv1-3312
Arecont D4S-AV2115v1-04
Arecont D4S-AV2115v1-3312
Arecont D4SO-AV2115DNv1-3312
Arecont D4SO-AV2115v1-3312
Avigilon 1.0W-H3PTZ-DP20
Avigilon 2.0W-H3-BO1-IR
Avigilon 5.0-H3-D1
AVTech AVM571
AVTech AVM583

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AVTech AVM591
AVTech AVX931
AVTech KPD679-HD
Axis M1004-W
Axis M1145
Axis M1145-L
Axis M3024-LVE
Axis M3025-VE
Axis M3026-VE
Axis M3027-PVE
Axis M5013-V
Axis M5014-V
Axis M7010
Axis P1204
Axis P1214
Axis P1214-E
Axis P1224-E
Axis P1355
Axis P1355-E
Axis P1357
Axis P1357-E
Axis P1405-E
Axis P1405-LE
Axis P1425-E
Axis P1425-LE
Axis P1427-E
Axis P1427-LE
Axis P1428-E
Axis P7216
Axis P8514
Axis Q1614
Axis Q1614-E
Axis Q1615
Axis Q1615-E
Axis Q1765-LE
Axis Q1922
Axis Q6042
Axis Q6042-E
Axis Q6042-S
Axis Q6044
Axis Q6044-C
Axis Q6044-E
Axis Q6044-S
Axis Q6045
Axis Q6045-C
Axis Q6045-E
Axis Q6045-S
Axis Q7424-R
Balter IP-B3
Benyuan BN-IP20CW/H
Beward BD4330DVx
Beward BD4330Dxx
Beward BD4330Rxx

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Beward BD4330xx
Bikal BKE-DIP-D2000H
Bikal BKE-F12D-817
Bikal BKE-IMP-420
Bikal BKE-KIP-TIR2000H
Bikal BKE-MBL020FFIR-DJ
Bikal BKE-MDM020FFIR-D11
Bikal BKE-MDM020FFIR-DN
Bikal BKE-MDM020VFIR-DM
Bikal BKP-BL020FF-AFB
Bikal BKP-IMP-420
Bikal BKPSDM020PZ20PXB
Bosch DVR 3000-16A
Bosch DVR 5000-16A
Bosch FlexiDome NDN-50022V03
Bosch NBN-733-V-P
Bosch NEI-308V05-21B
Bosch NIN-733-V03IP
Bosch VIP X16XFE
Bosch VJT-X40XF-E
Braxton BX254-BR
Braxton IRIP502812G-A
Brickcom CB-500Ap-360
Brickcom FD-301Af
Brickcom MD-300Np 360P
Brickcom MD-500AP 360P
Brickcom OB-130AF
Brickcom OB-132Np
Brickcom OB-500Af
Brickcom OB-500Af-A1-V5
Brickcom OSD-200AP
Brickcom VB-03
Bycon VP7016H
Camtron CMNH-138
Canon VB-H41
Canon VB-H610D
Canon VB-H610VE
Canon VB-H710F
Canon VB-S30D
Canon VB-S31D
Canon VB-S800D
Canon VB-S805D
Canon VB-S900F
Canon VB-S905F
Carmehil KIP-100P40
Carmehil KIP-200SHR30
Cisco IPC2421
Cisco IPC2500
Citrox CX-D014
Citrox CX-D016
Citrox CX-H026
Citrox CX-H027
Citrox CX-IP03

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Citrox CX-IPD02
Clear CL1304
Clear CL1304-NVR
Clear CL1308
Clear CL1308-NVR
Clear CL1316
Clear CL1316-NVR
Clear CL1324-NVR
Clear CL1332
Clear CL1332-NVR
Clear CLIP-1.0M
Clear CLIP-1.3M
Clear CLIP-2.0M
Clear CLSDP-HD-IP
Cop-BR COP3-IP17P
Cop-BR COP3-IP24P
Cop-BR NV332
Cop-BR NV333
Cop-BR NW456
Cop-BR NW541
CS Eletronica CMIP042X
CS Eletronica CMIP052X
Digifort Mobile Camera
Dinox DDC-2220
Dinox DDR-3310
Dinox DDR-5310
Dinox DDX-4320
Dinox DDX-5310
Dinox DDZ-8120
D-Link DCS-2130
D-Link DCS-2230
D-Link DCS-3112
D-Link DCS-5020L
D-Link DCS-6010L
D-Link DCS-6314
D-Link DCS-6513
D-Link DCS-6616
Dotix IB3-M121W/N
Dotix ID2-2M21D
DSS IP20 1.3
DSS IP20 1.3 Dome
DSS IP20 2.4
DSS IP20 2.4 Dome
DSS IP25 1.3 Blindome
DSS IP25 2.4 Blindome
DSS IP40 1.3
DSS IP40 2.4
Dynacolor NH053
Dynacolor W6-B
Dynacolor W8
Dynacolor X0S7-B
EagleVision EN-DAN13F3VP
EagleVision EN-DSM13F2VP

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EagleVision EN-DSM13F3VP
EagleVision EN-RWM13Z3M1
eCamView ECDVR-04
eCamView ECDVR-08
eCamView ECDVR-16
eCamView ECNVR-204P
eCamView ECNVR-208P
eCamView ECV-B13
eCamView ECV-B30VF
eCamView ECV-D13
eCamView ECV-D13VF
eCamView ECV-D30
eCamView ECV-D30VF
eCamView ECV-PH13HDWD
eCamView ECV-QD20P
eCamView ECV-SD13-IR30X
eCamView ECV-SD20-20X
eCamView ECV-SD20-IR30X
Ecotronic DVR-5004F
Ecotronic DVR-5016C
Ecotronic DVR-6008F
Ecotronic DVR-6032F
Ecotronic HVR-6016F
Ekotech CF101P
Ekotech NB670E
Ekotech ND614E
Ekotech ND736E
Ekotech ND737E
Ekotech NL721E
Etrovision EV6150ACI
Etrovision N21QMD
Etrovision N53F-F
Etrovision N56Q-10
Etrovision N71UML
Everfocus EDN3260
Everfocus EZN3260
Flexwatch FW-1170VQ
Flexwatch FW-1173FX
Flexwatch FW-1175FM
Flexwatch FW-1175MM
Flexwatch FW-1176FM
Flexwatch FW-1176MM
Flexwatch FW-1177FP
Flexwatch FW-1178DP
Flexwatch FW-1179FM
Flexwatch FW-1179FV
Flexwatch FW-1179FX
Flexwatch FW-1179MM
Flexwatch FW-1179MS
Flexwatch FW-3471
Flexwatch FW-3870
Flexwatch FW-5470
Flir DNB16M2

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Flir DNZ30TL2R
Flir FC-324
Foscam FI9804W
Foscam FI9805W
Foscam FI9818W
Foscam FI9826W
Foscam FI9831W
Foscam FI9851P
Foscam FI9851W
GeoVision GV-CB220D
Gerp IP BVE-2M-309
Gerp IP CB-2M-SL
Gerp IP DFY5M-1.05
Gerp IP DVI-2M-309
Gerp IP MDI-2M-28
Gerp IP SDE-2M-18X
Giga GS04HVR
Giga GS08HVR
Giga GS16480C
Giga GS16HVR
Giga GS16HVR960
Giga GS24HVR
Giga GS32960C
Giga GS32HVR
Giga GS4120C
Giga GS4HVR960
Giga GS8240C
Giga GS8HVR960
Giga GSIPWIFHD
Giga IP1000 DWDR
Giga IP1000 VWDR
Giga IP1000 VWDRP
Giga IP5000D
Giga IP5000V
Giga IP5000VP
Golbong GB-HD201-IR
Grandstream GXV3672FHD
Gravo GIB-1.3IF
Gravo GIB-1.3IVW
Gravo GIB-10F/10
Gravo GIB-10FW/10
Gravo GIB-10V/10
Gravo GIB-10VSW/15
Gravo GIB-10VW/15
Gravo GIB-1IF
Gravo GIB-1IFW
Gravo GIB-1IOVW/15
Gravo GIB-1IV
Gravo GIB-1IVW
Gravo GIB-20VW/15
Gravo GIB-2IVW
Gravo GIB-30F/10
Gravo GIB-30FSW/15

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Gravo GIB-30FW/15
Gravo GIB-30V/10
Gravo GIB-30VSW/15
Gravo GIB-30VW/15
Gravo GIB-3IVSW
Gravo GIB-50FW/15
Gravo GIB-50VW/15
Gravo GIB-5IF
Gravo GIB-5IFW
Gravo GIB-5IV
Gravo GIB-5IVW
Gravo GIC-1IF
Gravo GIC-1IFW
Gravo GIC-3IF
Gravo GIC-3IFW
Gravo GIC-5IFW
Gravo GID-1.30V
Gravo GID-1.3F
Gravo GID-1.3IF
Gravo GID-1.3IFAV
Gravo GID-1.3IV
Gravo GID-1.3IVW
Gravo GID-1.3IVW/SD
Gravo GID-10F/15
Gravo GID-10FW/15
Gravo GID-10IFW
Gravo GID-10V/15
Gravo GID-10VSW/15
Gravo GID-10VW/15
Gravo GID-1IF
Gravo GID-1IF/15
Gravo GID-1IF/SD
Gravo GID-1IFW
Gravo GID-1IFW/15
Gravo GID-1IFW/S
Gravo GID-1IV/15
Gravo GID-1IVSW/15
Gravo GID-1IVW/15
Gravo GID-20VW/15
Gravo GID-2IV
Gravo GID-2IVW
Gravo GID-30F/15
Gravo GID-30FSW/15
Gravo GID-30FW15
Gravo GID-30V/15
Gravo GID-30VSW/15
Gravo GID-30VW/15
Gravo GID-3IF
Gravo GID-3IF/15
Gravo GID-3IF/SD
Gravo GID-3IFW
Gravo GID-3IFW/15
Gravo GID-3IV/15

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Gravo GID-3IVSW/15
Gravo GID-3IVW/15
Gravo GID-40F
Gravo GID-40ZAW
Gravo GID-4IZAW
Gravo GID-50FW/15
Gravo GID-50VW/15
Gravo GID-5IFW
Gravo GID-5IFW/15
Gravo GID-5IVW/15
Gravo GIE-1CH
Gravo GIF-5IFW
Gravo GIZ-20AW18/20
Gravo GIZ-20AW22/20
Gravo GIZ-40AW18
Gravo GIZ-4I18
Gravo GSA16P00
Gravo GSA4U00
Greatek SEGI-0720B
Greatek SEGI-0720E
Greatek SEGI-1300B
Greatek SEGI-1333G
GVI Security GV-NC102D
GVI Security GV-NC102DO
GVI Security GV-NC201B
GVI Security GV-NC201VA
GVI Security GV-NC201VAH
GVI Security GV-NE100
GVI Security NIB-2150
GVI Security NID-213M
GVI Security NID-2151
GVI Security NID-2161
GVI Security NRD-213M
HDL DVR-HM TD32
HDL HMEG-70D
HDL HMEG-70DPIR
HDL HMEG-73DVIR
HDL HMEG-73P
HDL HMEG-83PIR
HDL HMEG-90
HDL HMNVR-TD16
HDL HMNVR-TD32
HDL HMNVR-TD4
HDL HMNVR-TD8
HDL HMS
Hikvision DS-2CD2012-I
Hikvision DS-2CD2032-I
Hikvision DS-2CD2110-I
Hikvision DS-2CD2112-I
Hikvision DS-2CD2132-I
Hikvision DS-2CD2212-I3
Hikvision DS-2CD2212-I5
Hikvision DS-2CD2232-I3

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Hikvision DS-2CD2232-I5
Hikvision DS-2CD2312F-I
Hikvision DS-2CD2332F-I
Hikvision DS-2CD2412F-I
Hikvision DS-2CD2412F-IW
Hikvision DS-2CD2432F-I
Hikvision DS-2CD2432F-IW
Hikvision DS-2CD2512F-I
Hikvision DS-2CD2512F-IS
Hikvision DS-2CD2512F-IW
Hikvision DS-2CD2512F-IWS
Hikvision DS-2CD2532F-I
Hikvision DS-2CD2532F-IS
Hikvision DS-2CD2532F-IW
Hikvision DS-2CD2532F-IWS
Hikvision DS-2CD2610-IS
Hikvision DS-2CD2612F-I
Hikvision DS-2CD2612F-IS
Hikvision DS-2CD2632F-I
Hikvision DS-2CD2632F-IS
Hikvision DS-2CD2710F-IS
Hikvision DS-2CD2712F-I
Hikvision DS-2CD2712F-IS
Hikvision DS-2CD2732F-I
Hikvision DS-2CD4012F
Hikvision DS-2CD4012F-A
Hikvision DS-2CD4012F-AW
Hikvision DS-2CD4012F-W
Hikvision DS-2CD4012F-WD
Hikvision DS-2CD4012FWD-A
Hikvision DS-2CD4012FWD-AW
Hikvision DS-2CD4012FWD-W
Hikvision DS-2CD4024F
Hikvision DS-2CD4024F-A
Hikvision DS-2CD4032FHWD-APW
Hikvision DS-2CD4032FWD
Hikvision DS-2CD4032FWD-A
Hikvision DS-2CD4032FWD-AP
Hikvision DS-2CD4032FWD-APW
Hikvision DS-2CD4032FWD-AW
Hikvision DS-2CD4032FWD-P
Hikvision DS-2CD4032FWD-PW
Hikvision DS-2CD4032FWD-W
Hikvision DS-2CD4112F
Hikvision DS-2CD4112F-I
Hikvision DS-2CD4112F-IZ
Hikvision DS-2CD4112FWD
Hikvision DS-2CD4112FWD-I
Hikvision DS-2CD4112FWD-IZ
Hikvision DS-2CD4112F-Z
Hikvision DS-2CD4112F-ZS
Hikvision DS-2CD4124F
Hikvision DS-2CD4124F-I

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Hikvision DS-2CD4124F-IZ
Hikvision DS-2CD4132FHWD
Hikvision DS-2CD4132FWD
Hikvision DS-2CD4132FWD-I
Hikvision DS-2CD4132FWD-IZ
Hikvision DS-2CD4132FWD-Z
Hikvision DS-2CD4212F-I
Hikvision DS-2CD4212F-IH
Hikvision DS-2CD4212F-IHS
Hikvision DS-2CD4212F-IS
Hikvision DS-2CD4212F-IZ
Hikvision DS-2CD4212F-IZH
Hikvision DS-2CD4212F-IZHS
Hikvision DS-2CD4212FWD-I
Hikvision DS-2CD4212FWD-IH
Hikvision DS-2CD4212FWD-IS
Hikvision DS-2CD4212FWD-ISH
Hikvision DS-2CD4212FWD-IZ
Hikvision DS-2CD4212FWD-IZH
Hikvision DS-2CD4212FWD-IZS
Hikvision DS-2CD4212FWD-IZSH
Hikvision DS-2CD4224F-I
Hikvision DS-2CD4224F-IH
Hikvision DS-2CD4224F-IS
Hikvision DS-2CD4224F-ISH
Hikvision DS-2CD4224F-IZ
Hikvision DS-2CD4224F-IZH
Hikvision DS-2CD4224F-IZS
Hikvision DS-2CD4224F-IZSH
Hikvision DS-2CD4232FWD-I
Hikvision DS-2CD4232FWD-IH
Hikvision DS-2CD4232FWD-IS
Hikvision DS-2CD4232FWD-IZ
Hikvision DS-2CD4232FWD-IZH
Hikvision DS-2CD4232FWD-IZS
Hikvision DS-2CD4232FWD-IZSH
Hikvision DS-2CD4312F-I
Hikvision DS-2CD4312F-IH
Hikvision DS-2CD4312F-IS
Hikvision DS-2CD4312F-IZ
Hikvision DS-2CD4312F-IZH
Hikvision DS-2CD4312F-IZSH
Hikvision DS-2CD4312FWD-I
Hikvision DS-2CD4312FWD-IH
Hikvision DS-2CD4312FWD-IS
Hikvision DS-2CD4312FWD-ISH
Hikvision DS-2CD4312FWD-IZ
Hikvision DS-2CD4312FWD-IZH
Hikvision DS-2CD4312FWD-IZS
Hikvision DS-2CD4312FWD-IZSH
Hikvision DS-2CD4324F-I
Hikvision DS-2CD4324F-IH
Hikvision DS-2CD4324F-IS

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Hikvision DS-2CD4324F-ISH
Hikvision DS-2CD4324F-IZ
Hikvision DS-2CD4324F-IZH
Hikvision DS-2CD4324F-IZS
Hikvision DS-2CD4324F-IZSH
Hikvision DS-2CD4332FWD-I
Hikvision DS-2CD4332FWD-IH
Hikvision DS-2CD4332FWD-IS
Hikvision DS-2CD4332FWD-ISH
Hikvision DS-2CD4332FWD-IZ
Hikvision DS-2CD4332FWD-IZH
Hikvision DS-2CD4332FWD-IZS
Hikvision DS-2CD4332FWD-IZSH
Hikvision DS-2CD6332FWD-I
Hikvision DS-2CD6362F-IVS
Hikvision DS-2CD6412FWD
Hikvision DS-2CD833FE
Hikvision DS-2CD862MF
Hikvision DS-2CD864F-E
Hikvision DS-2DE5184-A
Hikvision DS-2DE5184-AE
Hikvision DS-2DE5186-A
Hikvision DS-2DE5186-AE
Hikvision DS-2DF5274-A3
Hikvision DS-2DF5274-D
Hikvision DS-2DF5276A
Hikvision DS-2DF5276AC
Hikvision DS-2DF5284A
Hikvision DS-2DF5284-A3
Hikvision DS-2DF5284D
Hikvision DS-2DF5284D3
Hikvision DS-2DF5286A
Hikvision DS-2DF7274A
Hikvision DS-2DF7274-D
Hikvision DS-2DF7276-A
Hikvision DS-2DF7284A
Hikvision DS-2DF7284-AEL
Hikvision DS-2DF7284-D
Hikvision DS-2DF7286-A
Hikvision DS-6704HWI
Hikvision DS-7216HWI-SH
Hikvision EV-1016-HDX
Hikvision HFIPC-2352F-IWS
Honeywell HD3MDIP
Honeywell HD44IP
Hunt HLC-15BM
Hunt HLC-79CF
Hunt HLV-1WCF
Huviron SK-NB311
Huviron SK-NB312
Huviron SK-NB313
Huviron SK-NB321
Huviron SK-NB322

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Huviron SK-NB323
Huviron SK-NB331
Huviron SK-NB332
Huviron SK-NB333
Huviron SK-ND311
Huviron SK-ND312
Huviron SK-ND313
Huviron SK-ND321
Huviron SK-ND322
Huviron SK-ND323
Huviron SK-ND331
Huviron SK-ND332
Huviron SK-ND333
Huviron SK-ND811
Huviron SK-ND812
Huviron SK-ND813
Huviron SK-ND821
Huviron SK-ND822
Huviron SK-ND823
Huviron SK-ND831
Huviron SK-ND832
Huviron SK-ND833
Huviron SK-NP511
Huviron SK-NP521
Huviron SK-NP531
Huviron SK-NP611
Huviron SK-NP612
Huviron SK-NP613
Huviron SK-NP621
Huviron SK-NP622
Huviron SK-NP623
Huviron SK-NP631
Huviron SK-NP632
Huviron SK-NP633
Huviron SK-NV211
Huviron SK-NV212
Huviron SK-NV213
Huviron SK-NV221
Huviron SK-NV222
Huviron SK-NV223
Huviron SK-NV231
Huviron SK-NV232
Huviron SK-NV233
iCanTek iCanView356M
iMege G2214H
iMege G3211E
iMege M2210E
iMege M2210V
iMege N3211E
iMege V2211E
IndigoVision 8000 Series
IndigoVision 9000 Series
IndigoVision BX100

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IndigoVision VP888P81
Infinova V6822-T
Infokrause IK20-HD-1-H18
Infokrause IK20-HD-2-S20
Infokrause IK20-HD-IR-1-H18
Infokrause IK20-HD-IR-2-S20
Infokrause IK20-HD-JL-1-H18
Infokrause IK20-HD-JL-2-S20
Infokrause IK20-HD-LS-1-H18
Infokrause IK20-HD-LS-2-S20
Infokrause IKC1100
Infokrause IKE100
Infokrause IKE1100
Infokrause IKE1100L
Infokrause IKE1100M
Infokrause IKE1202HD
Infokrause IKE3100
Infokrause IKE3100M
Infokrause IKE3500
Infokrause IKE3500L
Infokrause IKE3500M
Infokrause IKE3510-FH
Infokrause IKE4100
Infokrause IKE4500
Infokrause IKE5500
Infokrause IKE6500
Infokrause IKE7500
Infokrause IKN100HD
Infokrause IKN1202HD
Infokrause IKN2102HD
Infokrause IKN3102HD
Infokrause IKN3502HD
Infokrause IKN6602HD
Infokrause IKV100
Infokrause IKV1000
Infokrause IKV1000A
Infokrause IKV1000HD
Infokrause IKV110
Infokrause IKV2000A
Infokrause IKV4000
Infokrause IKV4000A
Infokrause IKV4000L
Infokrause IKX3302HD
Infokrause IKX3702HD
Infokrause IKX4602HD
Intelbras HDCVI3004
Intelbras HDCVI3008
Intelbras VD 5016
Intelbras VD 5032
Intelbras VIP E2100
Intelbras VIP E4120
Intelbras VIP E4220
Intellinet INT-550307

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iPUX ICS1003
iPUX ICS100A
iPUX ICS1013
iPUX ICS101A
iPUX ICS1100
iPUX ICS1110
iPUX ICS1120
iPUX ICS1300
iPUX ICS130A
iPUX ICS1310
iPUX ICS131A
iPUX ICS1330
iPUX ICS133A
iPUX ICS1700
iPUX ICS1720
iPUX ICS1800
iPUX ICS2000
iPUX ICS2030
iPUX ICS2300
iPUX ICS2330
iPUX ICS7100
iPUX ICS7120
iPUX ICS7130
iPUX ICS7200
iPUX ICS7220
iPUX ICS7230
iPUX ICS7521
iPUX ICS8200
iPUX ICS8220
IQinvision IQ030S
IQinvision IQ031S
IQinvision IQ032S
IQinvision IQ761N
IQinvision IQ761W
IQinvision IQ762N
IQinvision IQ762W
IQinvision IQ763N
IQinvision IQ763W
IQinvision IQ765N
IQinvision IQ832N
IQinvision IQ861N
IQinvision IQ861W
IQinvision IQ862N
IQinvision IQ862W
IQinvision IQ863N
IQinvision IQ863W
IQinvision IQ865N
IQinvision IQA30N
IQinvision IQA31N
IQinvision IQA31NA
IQinvision IQA31W
IQinvision IQA31WA
IQinvision IQA32N

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IQinvision IQA32NA
IQinvision IQA32W
IQinvision IQA32WA
IQinvision IQA33N
IQinvision IQA33NA
IQinvision IQA33W
IQinvision IQA33WA
IQinvision IQA35N
IQinvision IQA35NA
IQinvision IQD30S
IQinvision IQD31S
IQinvision IQD32S
IQinvision IQD51W
IQinvision IQD52W
IQinvision IQD53W
IQinvision IQD55N
IQinvision IQM30N
IQinvision IQM31N
IQinvision IQM32N
IQinvision IQM51W
IQinvision IQM52W
IQinvision IQM53W
IQinvision IQM55N
IQinvision IQR53NR
ITX NMX-2003-P
JVC VN-H557
KODO PRO KDR-08HD
KODO PRO KDR-16HD
Kompsos K7013IR
Kompsos K7020D
Kompsos K7020IR
Kompsos K7213SPD
Kompsos K7220SPD
Kompsos K7220SPDIR
LecVox LEC-13BL
LecVox LEC-13BP
LecVox LEC-13BVF
LecVox LEC-13DVF
LG LE6016
LG LNB5110
LG LNB7210
LG LND3110R
LG LND3210R
LG LND5100R
LG LND5110
LG LND7210R
LG LNP3020T
LG LNU3110R
LG LNU5100R
LG LNU7210R
LG LNV7210R
LG LW9422G
LG LW9424-B

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Linksys WVC80N
LS Vision LS HD Fixed
LS Vision LS HD Speed Dome
LS Vision LS SD Fixed
LS Vision LS SD Speed Dome
LTV ICDM1-E6231L
LTV ICDM1-E8231L
LTV ICDM2-E6231L
LTV NVR-1650
LuxVision DVR5704T-S
LuxVision DVR5708T-S
LuxVision LV-32
LuxVision LVCSDIP
Lynx LY-DVR4016HE-C
Lynx LY-DVR4040HE-C
Lynx LY-DVR4080HE-C
Merit Lilin IPR434ESX
Merit Lilin IPR438ESX
Merit Lilin IPS4184S
Merit Lilin IPS4204
Merit Lilin ZR6122-EX3
Messoa LPR606
Messoa LPR610
Messoa NCB355
Messoa NCB358
Messoa NCR365
Messoa NCR878
Messoa NDF820PRO
Messoa NDF831PRO
Messoa NDF891PRO
Messoa NDR891-HN5-MES
Messoa NID321
Messoa NID325
Messoa NID335
Messoa NID338
Messoa NOD385
Messoa NOD395
Messoa NOD398
Messoa UFD301
Messoa UFD305
Mobotix D14D
Mobotix M24
Mobotix Q24M
Mobotix S15D
MTW VM0414
MTW VM0514
MTW VM0614
Newello NW-TA-5708
Newello NW-TA-5716
Nexcom NCM-301-V
Nixzen NX-IP-Encod9302D-W
Novacell IPC-IRCY20MA
Novacell TD 2308

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Novacell TD 2316
Oncam EVO-05NID
OnElectronics CFB-10MP/IP
OnElectronics CFB-10MP/LIR35-IP
OnElectronics CFB-13MP/IP
OnElectronics CFB-13MP/LIR35-IP
OnElectronics CFB-20MP/IP
OnElectronics CFB-20MP/LIR35-IP
OnElectronics CFB-30MP/IP
OnElectronics CSD-13MP 12X
OnElectronics EP-04A01
OnElectronics EP-08A01
OnElectronics EP-16A01
OnElectronics MCF-20MP/LIR35-IP
OnElectronics MDV-10MP/LIR20-IP
OnElectronics MDV-13MP/LIR20-IP
OnElectronics MDV-20MP/LIR20-IP
OnElectronics MDV-30MP/LIR20-IP
OnElectronics MDV-30MP/LIR20-IP-AV
Opgal Sii AT
Oxcis OX-712A
Oxcis OX-713H1
Oxcis OX-713W
Oxcis OX-812A
Oxcis OX-8130
Oxcis OX-813T2
Pelco DX4816
Pelco EVO-05NID
Pelco IL10-BP
Pelco NET5516
Pelco Sarix IBP519-ER
Pelco Sarix IME319-AD
Pelco Sarix IMP319-1
Pelco Sarix IXE11
Pelco Sarix IXE21
Pelco Sarix IXE31
Pelco Sarix IXES1
Pelco Sarix IXP31
Pelco Spectra D5230
Pelco Spectra Pro P1220
Pixord PD636E
Planet ICA-3250V
Planet ICA-4200V
Planet ICA-8350
Planet ICA-8500
Posonic G.eye HCN-SP900
Posonic G.eye HCN-T4-R4310
Posonic G.eye HCN-T4-R4410
Posonic G.eye HCN-T-RC6310
Posonic G.eye HCN-T-RC6320
Posonic G.eye HCN-T-RC6510
Posonic G.eye HCN-T-RC6520
Posonic G.eye HCN-T-RC6910

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Posonic G.eye HCN-T-RC6920
Posonic G.eye HCS-V404
Pumatronix ITSCAM-401
Qihan HD-CVI
Qihan QH-3208A-H
Qihan QH-D3004C-H
Qihan QH-D3008A-H
Qihan QH-D3016A-H
Quaddrix oQ-6330
RIVA IPN100HD
RIVA RC100
RIVA RC1100
RIVA RC1100-M
RIVA RC1202-HD
RIVA RC3100
RIVA RC3100-M
RIVA RC3102-HD
RIVA RC3302-HD
RIVA RC3500
RIVA RC3500-L
RIVA RC3500-M
RIVA RC3502-HD
RIVA RC3702-HD
RIVA RC4100-27X
RIVA RC4100-36X
RIVA RC4100-37X
RIVA RC4500-27X
RIVA RC4500-36X
RIVA RC4500-37X
RIVA RC4602-HD
RIVA RC5500
RIVA RC6500
RIVA RC6602-HD
RIVA RC7500
RIVA RE1000
RIVA RE110
RIVA RE4000
RIVA RTC1100
Safety SIP260IR
Samsung SNB-5003
Samsung SNB-6010
Samsung SNB-7004P
Samsung SNB-8000N
Samsung SND-5083
Samsung SND-5084R
Samsung SND-6011R
Samsung SND-7084N
Samsung SND-7084RP
Samsung SNF-7010P
Samsung SNF-7010V
Samsung SNF-7010VM
Samsung SNF-8010
Samsung SNF-8010VM

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Samsung SNH-1011N
Samsung SNO-5084RP
Samsung SNO-7084RN
Samsung SNP-5300H
Samsung SNP-5430H
Samsung SNP-6200N
Samsung SNP-6320H
Samsung SNP-6321N
Samsung SNV-5084N
Samsung SNV-5084R
Samsung SNV-6013N
Samsung SNV-6084N
Samsung SNV-7084P
Samsung SNV-7084RP
Samsung SNV-8080P
Samsung Techwin SNP-3300A
Secubest SB-BFN-0812P
Secubest SB-BFN-B402P
Secubest SB-FXN-B402P
Secubest SB-PXN-0512P
Sentry360 FS-IP3000-M
Sentry360 FS-IP4180
Sentry360 FS-IP5000-M
Sentry360 IS-DM220-HB
Sentry360 IS-DM220-IRB-30
Sentry360 IS-DM240
Sentry360 IS-DM260
Sentry360 IS-IP200-DN
Sentry360 IS-IP220-IRB-30
Sentry360 IS-IP290
Sfera GESSXHD-330MVIP
Sfera GESSXHD-613MIP
Sfera GESSXHD-713MIP
Sfera GESSXHD-720MIP
Sfera GESSXHD-720MVIP
Sfera GESSXHD-730MVIP
Sfera GESSXHD-730MVIP2
Showtec 7904H
Showtec SW5104
Showtec SW7604
Showtec SW9616
Siera IPS NVS
Siqura TKH BC620WDR
Siqura TKH BC620WDR-AID
Siqura TKH BC620WDRPID
Siqura TKH BC820
Siqura TKH BC820EXP
Siqura TKH BC820H1
Siqura TKH BC820MP5
Siqura TKH BL810F1IR
Siqura TKH BL820M1IR
Siqura TKH C10D
Siqura TKH C-620 E

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Siqura TKH C-620 E-PID
Siqura TKH CD810F1
Siqura TKH CD820F1
Siqura TKH CD820F2
Siqura TKH EVE-1
Siqura TKH EVE-4
Siqura TKH EVE-4x4
Siqura TKH EVE-4x4 V2
Siqura TKH FD810V1IR
Siqura TKH FD820M1
Siqura TKH FD820M1IR
Siqura TKH HSD 620
Siqura TKH HSD 620 N
Siqura TKH HSD 620 PRH
Siqura TKH HSD 621 PRH
Siqura TKH HSD 622
Siqura TKH HSD 626
Siqura TKH HSD 628 EXP
Siqura TKH HSD 820 H1EP
Siqura TKH HSD 820 H1IM
Siqura TKH HSD 820 H2E
Siqura TKH HSD 820 H2I
Siqura TKH HSD 820 H3E
Siqura TKH IFD820V1IR
Siqura TKH MSD620
Siqura TKH MSD622
Siqura TKH S-60 D-MC
Siqura TKH S-620 D
Siqura TKH S-620 E
Siqura TKH S-64 E 32G
Siqura TKH S-64 E V2
SkyVision RJ-S1.3HIB
Sony SNC-CX600
Sony SNC-CX600W
Sony SNC-EB600
Sony SNC-EB600B
Sony SNC-EB602R
Sony SNC-EB630
Sony SNC-EB630B
Sony SNC-EB632R
Sony SNC-EM602R
Sony SNC-HM662
Sony SNC-VB632D
Sony SNC-VB635
Sony SNC-VM601
Sony SNC-VM601B
Sony SNC-VM631
Sony SNC-VM632R
Sony SNC-WR600
Sony SNC-WR602
Sony SNC-WR630
Sony SNC-WR632
Sony SNC-XM631

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Sony SNC-XM632
Sony SNC-XM636
Sony SNC-XM637
Suatech SUAIP 1300VF
Suatech SUAIP B1000
Suatech SUAIP-B2000VF
Suatech SUAIPC1000W
Suatech SUAIP-D1300VF
Suatech SUAIP-D2000VF
TecVoz CMNH-135
TecVoz CTNC-6351DMP
TecVoz HLC-1NAD/P
TecVoz HLC-79AD/P
TecVoz HLC-79AD/W
TecVoz HLC-79CD/P
TecVoz HLC-83VW
TecVoz HLC-84BV
TecVoz HLC-84BVW
TecVoz HLC-84VW
TecVoz HLV-1WADP
TecVoz HWS-01AD/P
TecVoz HWS-01AD/W
TecVoz HWS-04AD/W
TecVoz IR-IP-MG-PTZ20N
TecVoz TD2304SE
TecVoz TD2404MD
TecVoz TD2516FD
TecVoz THK-ICB13
TecVoz THK-ICB30
TecVoz THK-ICC13IR
TecVoz THK-ICC13IR-W
TecVoz THK-IDM13-M
TecVoz THK-IDM30
TecVoz THK-IEN1
TecVoz THK-IEN4
TecVoz THK-ISP13
TecVoz THK-ISP13IR
TecVoz THK-ISP20
TecVoz THK-SH04
TecVoz THK-SH08
TecVoz THK-SH16
Thor Security TH-EC3104
Thor Security TH-VEP1CH
Toshiba IK-WB21A
TRENDnet TV-IP201
Uniview IPC241L-IR-IN
US Import 2308-SEC
US Import 2316-SEC
US Import 2516-HEC
US Import 2704-XEP
US Import 2708-XDP
US Import 2716-XDM
Vacron VFH-8220I

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Vacron VIH-DH850
Vacron VIH-DH850E
Vacron VIT-6series
Vacron VIT-DA651
Vacron VIT-UA626E
Vacron VIT-UA631E
Venetian 1M Tiny Cube
Venetian IP-11000
Venetian IP-51000
Venetian IP-61000
Venetian IP-61335
Venetian IP-61340
Venetian IP-61340PRO
Venetian IP-65040
Venetian IP-7516
Venetian NVR-1008T
Venetian NVR-2008X
Venetian NVR-2016T
Venetian NVR-6024
Venetian SEP-1318
Venetian SEP-1418
Venetian SEP-2018
Venetian VNT-1632
Via Real NND-6301M-B
Videoline EP-CBW7431AF-IR
Videoline EP-CBW7472
Videoline EP-CBW7543B
Videoline EP-CBW7553M-IR
Videoline EP-CBW7554-IR
Videoline EP-CBW7556-IR
VisionView D7501
VisionView DG216
VisionView DG604 II S
VisionView DG604 S
VisionView DG604 T
VisionView DG608 II S
VisionView DG608 II V
VisionView DG608 S
VisionView DG608 V
VisionView DG616 II S
VisionView DG616 II U
VisionView DG616 S
VisionView DG616 T
VisionView DG616 U
VisionView DG86
VisionView DH060
VisionView DH820eA3
VisionView NH061
VisionView NH071
VisionView NH073
VisionView NH102
VisionView NH102 Rugged
VisionView NH221

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VisionView NH701E
VisionView NH801E
VisionView NH811E
VisionView NH820
VisionView NV062
VisionView NV102
VisionView V1
VisionView V1 Rugged
VisionView V2
VisionView V6
VisionView VV-Q1155RV
VisionView VV-WJ
VisionView VV-WM
VisionView VV-X1
VisionView W1-BA100
VisionView W2
VisionView W3
VisionView W5
VisionView W6
VisionView ZH811E
Vivotek FD8137H
Vivotek FD8138H
Vivotek FD8152V
Vivotek FD8154
Vivotek FD8154V
Vivotek FD8163
Vivotek FD8164
Vivotek FD8164-V
Vivotek FD8166
Vivotek FD8167
Vivotek FD8168
Vivotek FD8169
Vivotek FD8171
Vivotek FD8338HV
Vivotek FD8363
Vivotek FD8365EHV
Vivotek FD8367
Vivotek FD8373EHV
Vivotek FE8171V
Vivotek FE8172
Vivotek FE8172V
Vivotek FE8173
Vivotek FE8174
Vivotek FE8180
Vivotek FE8181
Vivotek FE8181V
Vivotek IB8156-C
Vivotek IB8168-C
Vivotek IB8338-H
Vivotek IB8354-C
Vivotek IB8367
Vivotek IB8369
Vivotek IB8373EH

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Vivotek IP8155HP
Vivotek IP8165HP
Vivotek IP8173H
Vivotek IP8331
Vivotek IP8335EH
Vivotek IP8337H
Vivotek IP8355EH
Vivotek IP8355HP
Vivotek IP8364-C
Vivotek IP8365EH
Vivotek IP8371-E
Vivotek IP8372
Vivotek MD8531H
Vivotek PD8136
Vivotek SD8314E
Vivotek SD8316E
Vivotek SD8363E
Vivotek SD8364E
Vivotek SF8172
Vivotek SF8172V
Vivotek SF8174
Vivotek VC8201
Vivotek VS8100
VTV IPNV03
VTV SpeedDome HD IP
VTV VT-6626
Vumii Sii AT
Wanscam HW0028
XTS AUG60-WB36
XTS N50A-ML
XTS N50U-ML
XTS N51A-ML
XTS N51U-ML
XTS N70A-BL
XTS N70Q-10
XTS N70Q-C
XTS N70Q-CD
XTS N70U-BL
XTS N71A-ML
XTS N71U-ML
XTS PAN 5MPVL
Zavio V1100

2.2.3 New supported I/O devices

Comm5 MA-5000
Comm5 MA-5100
Comm5 MA-5200
Comm5 MI-1000
Commbox MCA10
Commbox MCA10 32bit
Commbox MIO-0824
Commbox MIO-100
Commbox MIO-2408

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Commbox MIO-400
Commbox MIO-401
Commbox MIO-800
Commbox MIO-801
Fiber Security SMV-1
Fiber SenSys FD-322
Helper Supervisão
IP Extreme IPX8001
Moxa E2212
Optex RLS-3060L
Optex RLS-3060SH
Penta DES-8E8S
WarpTec TIO-2721

2.3 Fixes

The following corrections were applied:

- Fixed a problem with multi-monitor in surveillance client that prevented its use if the client was closed on a secondary monitor and reopened after this monitor be removed from the computer. This problem only occurred if the client was configured for manual multi-monitor
- Minor fixes to the communication driver of Venetian devices
- Scheduled events were being triggered even when disabled
- The position of presets from Flir cameras were not being saved correctly
- Fixed a problem in video recording buffer that could cause memory overflow when the recordings were set to less than 1 frame per second
- Fixed a problem of importing the list of plates by using CSV files
- Fixed a problem in the change of recording profile by motion detection which could momentarily break the recorded images
- Fixed an issue with Digifort services announcement (Server, Analytics and LPR) which prevented its operation on multiple networks
- The reconnection message in live camera control was not centralized
- The ActiveX control was not properly saving views
- The media exporting in native format was not calculating the size of files of the media player when using the export limit
- When the user clicks to manually connect to a server in the surveillance client, the system will not automatically switch to the list of objects, remaining in the servers list
- The privacy mask and filters were not being applied to AVI exporting
- The biometrics authentication was not working without username

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- Fixed some problems in the generation of reports in surveillance client
- The search of analytics or LPR records chould show the wrong details of a selected record when connected to more than one server
- The system installation would freeze when installing the driver for biometric reader when running in silent mode
- Fixed a problem with the speed of PTZ from Vivotek SD8363E camera
- The administration client could record only 127 presets. Increased to 255
- Fixed a problem with the media driver of camera SNP3300 which prevented its use
- The event log was working even when disabled
- Fixed a problem in the PTZ driver of Vivotek video servers what would prevent the control of the cameras
- Fixed a problem that could trigger the communication failure event when the scheduling of a camera set to continuous recording changed to motion recording while using an alternative video profile for detecting motion

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